

ATOM	17669	CA	SER	J	198	6.260	112.711	205.189	1.00123.57
ATOM	17670	C	SER	J	198	5.366	113.345	206.257	1.00125.19
ATOM	17671	O	SER	J	198	4.971	114.508	206.139	1.00125.52
ATOM	17672	CB	SER	J	198	7.643	113.370	205.247	1.00123.59
ATOM	17673	OG	SER	J	198	7.549	114.774	205.076	1.00124.55
ATOM	17674	N	GLY	J	199	5.062	112.577	207.303	1.00127.02
ATOM	17675	CA	GLY	J	199	4.223	113.078	208.382	1.00128.60
ATOM	17676	C	GLY	J	199	4.170	112.166	209.600	1.00129.60
ATOM	17677	O	GLY	J	199	5.205	111.820	210.172	1.00128.52
ATOM	17678	N	THR	J	200	2.958	111.783	209.997	1.00131.30
ATOM	17679	CA	THR	J	200	2.742	110.908	211.150	1.00133.50
ATOM	17680	C	THR	J	200	2.054	109.610	210.718	1.00135.22
ATOM	17681	O	THR	J	200	0.868	109.403	210.997	1.00135.98
ATOM	17682	CB	THR	J	200	1.856	111.599	212.219	1.00133.32
ATOM	17683	OG1	THR	J	200	2.500	112.794	212.673	1.00134.26
ATOM	17684	CG2	THR	J	200	1.621	110.680	213.408	1.00132.15
ATOM	17685	N	THR	J	201	2.804	108.743	210.040	1.00136.09
ATOM	17686	CA	THR	J	201	2.275	107.465	209.563	1.00136.52
ATOM	17687	C	THR	J	201	1.919	106.560	210.743	1.00136.24
ATOM	17688	O	THR	J	201	2.364	106.798	211.862	1.00136.25
ATOM	17689	CB	THR	J	201	3.300	106.744	208.658	1.00137.06
ATOM	17690	OG1	THR	J	201	2.690	105.593	208.056	1.00136.45
ATOM	17691	CG2	THR	J	201	4.519	106.313	209.471	1.00137.38
ATOM	17692	N	ALA	J	202	1.127	105.520	210.488	1.00135.92
ATOM	17693	CA	ALA	J	202	0.706	104.609	211.547	1.00135.34
ATOM	17694	C	ALA	J	202	1.191	103.169	211.388	1.00135.39
ATOM	17695	O	ALA	J	202	1.796	102.607	212.299	1.00134.82
ATOM	17696	CB	ALA	J	202	-0.810	104.632	211.662	1.00134.33
ATOM	17697	N	ASP	J	203	0.921	102.571	210.233	1.00135.82
ATOM	17698	CA	ASP	J	203	1.318	101.189	209.987	1.00136.61
ATOM	17699	C	ASP	J	203	2.825	100.985	209.996	1.00136.46
ATOM	17700	O	ASP	J	203	3.590	101.914	210.262	1.00136.18
ATOM	17701	CB	ASP	J	203	0.750	100.697	208.648	1.00139.23
ATOM	17702	CG	ASP	J	203	1.319	101.446	207.451	1.00140.66
ATOM	17703	OD1	ASP	J	203	2.046	102.442	207.660	1.00141.77
ATOM	17704	OD2	ASP	J	203	1.032	101.037	206.300	1.00140.79
ATOM	17705	N	ALA	J	204	3.236	99.754	209.704	1.00136.18
ATOM	17706	CA	ALA	J	204	4.646	99.384	209.658	1.00135.84
ATOM	17707	C	ALA	J	204	5.205	99.597	208.255	1.00135.60
ATOM	17708	O	ALA	J	204	6.410	99.782	208.081	1.00135.99
ATOM	17709	CB	ALA	J	204	4.814	97.929	210.068	1.00136.03
ATOM	17710	N	GLY	J	205	4.322	99.560	207.260	1.00135.01
ATOM	17711	CA	GLY	J	205	4.742	99.765	205.886	1.00134.64
ATOM	17712	C	GLY	J	205	4.807	101.247	205.581	1.00134.78
ATOM	17713	O	GLY	J	205	4.907	101.653	204.424	1.00134.72
ATOM	17714	N	ASN	J	206	4.749	102.050	206.641	1.00135.37
ATOM	17715	CA	ASN	J	206	4.791	103.506	206.549	1.00135.75
ATOM	17716	C	ASN	J	206	4.011	104.024	205.341	1.00135.34
ATOM	17717	O	ASN	J	206	4.594	104.467	204.351	1.00135.31
ATOM	17718	CB	ASN	J	206	6.247	103.989	206.496	1.00136.88
ATOM	17719	CG	ASN	J	206	6.372	105.494	206.681	1.00138.74
ATOM	17720	OD1	ASN	J	206	7.472	106.022	206.863	1.00140.34
ATOM	17721	ND2	ASN	J	206	5.245	106.193	206.629	1.00138.54
ATOM	17722	N	SER	J	207	2.685	103.960	205.436	1.00134.78
ATOM	17723	CA	SER	J	207	1.807	104.416	204.365	1.00133.71
ATOM	17724	C	SER	J	207	0.432	104.809	204.895	1.00133.68
ATOM	17725	O	SER	J	207	-0.525	104.896	204.131	1.00133.24
ATOM	17726	CB	SER	J	207	1.641	103.320	203.312	1.00132.15
ATOM	17727	OG	SER	J	207	2.888	102.966	202.750	1.00130.89
ATOM	17728	N	ILE	J	208	0.327	105.045	206.200	1.00133.62
ATOM	17729	CA	ILE	J	208	-0.955	105.422	206.786	1.00133.84
ATOM	17730	C	ILE	J	208	-0.835	106.534	207.824	1.00134.12

ATOM	17731	O	ILE	J	208	-0.730	106.270	209.022	1.00134.02
ATOM	17732	CB	ILE	J	208	-1.655	104.199	207.435	1.00133.68
ATOM	17733	CG1	ILE	J	208	-1.973	103.154	206.361	1.00132.78
ATOM	17734	CG2	ILE	J	208	-2.941	104.632	208.131	1.00133.80
ATOM	17735	CD1	ILE	J	208	-2.666	101.913	206.891	1.00132.40
ATOM	17736	N	PHE	J	209	-0.859	107.779	207.353	1.00134.36
ATOM	17737	CA	PHE	J	209	-0.763	108.937	208.235	1.00134.53
ATOM	17738	C	PHE	J	209	-2.137	109.139	208.871	1.00135.25
ATOM	17739	O	PHE	J	209	-3.026	109.745	208.275	1.00135.51
ATOM	17740	CB	PHE	J	209	-0.358	110.187	207.442	1.00133.75
ATOM	17741	CG	PHE	J	209	0.690	109.932	206.377	1.00132.47
ATOM	17742	CD1	PHE	J	209	0.323	109.474	205.110	1.00131.20
ATOM	17743	CD2	PHE	J	209	2.038	110.161	206.635	1.00131.24
ATOM	17744	CE1	PHE	J	209	1.281	109.249	204.119	1.00129.74
ATOM	17745	CE2	PHE	J	209	3.002	109.939	205.651	1.00130.90
ATOM	17746	CZ	PHE	J	209	2.620	109.483	204.390	1.00129.74
ATOM	17747	N	THR	J	210	-2.296	108.619	210.084	1.00136.43
ATOM	17748	CA	THR	J	210	-3.552	108.690	210.826	1.00138.11
ATOM	17749	C	THR	J	210	-4.241	110.051	210.912	1.00140.12
ATOM	17750	O	THR	J	210	-3.790	111.043	210.334	1.00141.03
ATOM	17751	CB	THR	J	210	-3.360	108.172	212.257	1.00136.97
ATOM	17752	OG1	THR	J	210	-1.963	107.970	212.498	1.00137.03
ATOM	17753	CG2	THR	J	210	-4.113	106.870	212.460	1.00135.51
ATOM	17754	N	ASN	J	211	-5.347	110.068	211.654	1.00141.82
ATOM	17755	CA	ASN	J	211	-6.170	111.257	211.870	1.00143.06
ATOM	17756	C	ASN	J	211	-5.441	112.318	212.704	1.00143.83
ATOM	17757	O	ASN	J	211	-5.180	112.116	213.891	1.00144.04
ATOM	17758	CB	ASN	J	211	-7.473	110.840	212.570	1.00143.55
ATOM	17759	CG	ASN	J	211	-8.436	111.997	212.776	1.00143.96
ATOM	17760	OD1	ASN	J	211	-9.495	111.834	213.386	1.00143.96
ATOM	17761	ND2	ASN	J	211	-8.079	113.167	212.263	1.00144.79
ATOM	17762	N	THR	J	212	-5.126	113.450	212.077	1.00144.24
ATOM	17763	CA	THR	J	212	-4.426	114.537	212.756	1.00144.23
ATOM	17764	C	THR	J	212	-5.408	115.501	213.417	1.00145.34
ATOM	17765	O	THR	J	212	-5.121	116.689	213.569	1.00145.67
ATOM	17766	CB	THR	J	212	-3.550	115.329	211.769	1.00143.28
ATOM	17767	OG1	THR	J	212	-2.884	114.416	210.891	1.00142.45
ATOM	17768	CG2	THR	J	212	-2.504	116.145	212.521	1.00142.15
ATOM	17769	N	ALA	J	213	-6.567	114.983	213.813	1.00146.37
ATOM	17770	CA	ALA	J	213	-7.591	115.798	214.456	1.00147.11
ATOM	17771	C	ALA	J	213	-7.721	115.455	215.935	1.00147.99
ATOM	17772	O	ALA	J	213	-7.991	114.304	216.294	1.00147.72
ATOM	17773	CB	ALA	J	213	-8.929	115.596	213.757	1.00146.30
ATOM	17774	N	SER	J	214	-7.521	116.460	216.786	1.00148.75
ATOM	17775	CA	SER	J	214	-7.627	116.286	218.232	1.00149.50
ATOM	17776	C	SER	J	214	-9.106	116.261	218.613	1.00150.29
ATOM	17777	O	SER	J	214	-9.494	116.724	219.687	1.00150.09
ATOM	17778	CB	SER	J	214	-6.922	117.439	218.955	1.00149.31
ATOM	17779	OG	SER	J	214	-7.033	117.310	220.362	1.00147.93
ATOM	17780	N	PHE	J	215	-9.918	115.708	217.714	1.00151.28
ATOM	17781	CA	PHE	J	215	-11.364	115.609	217.895	1.00151.68
ATOM	17782	C	PHE	J	215	-11.776	114.383	218.707	1.00152.62
ATOM	17783	O	PHE	J	215	-12.902	114.305	219.203	1.00152.32
ATOM	17784	CB	PHE	J	215	-12.045	115.584	216.523	1.00149.91
ATOM	17785	CG	PHE	J	215	-13.537	115.462	216.584	1.00148.39
ATOM	17786	CD1	PHE	J	215	-14.331	116.592	216.734	1.00147.39
ATOM	17787	CD2	PHE	J	215	-14.150	114.219	216.488	1.00147.57
ATOM	17788	CE1	PHE	J	215	-15.715	116.490	216.781	1.00146.46
ATOM	17789	CE2	PHE	J	215	-15.536	114.107	216.534	1.00147.39
ATOM	17790	CZ	PHE	J	215	-16.318	115.247	216.681	1.00146.56
ATOM	17791	N	SER	J	216	-10.855	113.433	218.841	1.00154.03
ATOM	17792	CA	SER	J	216	-11.106	112.205	219.589	1.00154.94

ATOM	17793	C	SER	J	216	-12.268	111.404	218.987	1.00155.44
ATOM	17794	O	SER	J	216	-13.136	110.916	219.710	1.00155.62
ATOM	17795	CB	SER	J	216	-11.401	112.549	221.056	1.00154.51
ATOM	17796	OG	SER	J	216	-11.643	111.386	221.828	1.00154.83
ATOM	17797	N	PRO	J	217	-12.293	111.254	217.648	1.00155.71
ATOM	17798	CA	PRO	J	217	-13.364	110.508	216.980	1.00155.18
ATOM	17799	C	PRO	J	217	-13.268	108.990	217.166	1.00154.72
ATOM	17800	O	PRO	J	217	-13.124	108.500	218.285	1.00154.74
ATOM	17801	CB	PRO	J	217	-13.204	110.928	215.525	1.00155.71
ATOM	17802	CG	PRO	J	217	-11.720	111.052	215.396	1.00156.73
ATOM	17803	CD	PRO	J	217	-11.343	111.799	216.658	1.00156.09
ATOM	17804	N	ALA	J	218	-13.347	108.254	216.062	1.00154.24
ATOM	17805	CA	ALA	J	218	-13.278	106.796	216.096	1.00153.60
ATOM	17806	C	ALA	J	218	-11.845	106.288	216.252	1.00153.21
ATOM	17807	O	ALA	J	218	-10.960	107.015	216.706	1.00152.82
ATOM	17808	CB	ALA	J	218	-13.896	106.219	214.825	1.00153.35
ATOM	17809	N	GLN	J	219	-11.635	105.030	215.870	1.00152.77
ATOM	17810	CA	GLN	J	219	-10.324	104.390	215.947	1.00151.90
ATOM	17811	C	GLN	J	219	-9.992	103.682	214.633	1.00151.17
ATOM	17812	O	GLN	J	219	-10.858	103.520	213.769	1.00151.19
ATOM	17813	CB	GLN	J	219	-10.294	103.374	217.094	1.00152.48
ATOM	17814	CG	GLN	J	219	-10.317	103.986	218.488	1.00152.43
ATOM	17815	CD	GLN	J	219	-10.277	102.938	219.588	1.00152.27
ATOM	17816	OE1	GLN	J	219	-10.114	103.264	220.764	1.00151.57
ATOM	17817	NE2	GLN	J	219	-10.431	101.673	219.210	1.00152.45
ATOM	17818	N	GLY	J	220	-8.738	103.259	214.489	1.00149.98
ATOM	17819	CA	GLY	J	220	-8.317	102.575	213.278	1.00147.72
ATOM	17820	C	GLY	J	220	-8.680	103.330	212.014	1.00146.46
ATOM	17821	O	GLY	J	220	-9.361	102.794	211.138	1.00144.92
ATOM	17822	N	VAL	J	221	-8.225	104.579	211.922	1.00146.11
ATOM	17823	CA	VAL	J	221	-8.498	105.425	210.762	1.00145.75
ATOM	17824	C	VAL	J	221	-7.311	106.313	210.399	1.00145.40
ATOM	17825	O	VAL	J	221	-6.703	106.942	211.266	1.00144.77
ATOM	17826	CB	VAL	J	221	-9.719	106.340	211.003	1.00145.97
ATOM	17827	CG1	VAL	J	221	-9.942	107.244	209.792	1.00145.44
ATOM	17828	CG2	VAL	J	221	-10.957	105.497	211.272	1.00146.10
ATOM	17829	N	GLY	J	222	-7.000	106.361	209.106	1.00145.35
ATOM	17830	CA	GLY	J	222	-5.897	107.170	208.619	1.00145.34
ATOM	17831	C	GLY	J	222	-6.004	107.409	207.122	1.00145.45
ATOM	17832	O	GLY	J	222	-7.064	107.191	206.530	1.00145.67
ATOM	17833	N	VAL	J	223	-4.912	107.855	206.506	1.00145.22
ATOM	17834	CA	VAL	J	223	-4.895	108.119	205.068	1.00144.53
ATOM	17835	C	VAL	J	223	-3.754	107.356	204.397	1.00143.63
ATOM	17836	O	VAL	J	223	-2.687	107.188	204.984	1.00143.52
ATOM	17837	CB	VAL	J	223	-4.715	109.629	204.776	1.00145.00
ATOM	17838	CG1	VAL	J	223	-4.865	109.892	203.287	1.00144.95
ATOM	17839	CG2	VAL	J	223	-5.730	110.441	205.569	1.00144.79
ATOM	17840	N	GLN	J	224	-3.984	106.896	203.170	1.00142.73
ATOM	17841	CA	GLN	J	224	-2.970	106.151	202.425	1.00142.13
ATOM	17842	C	GLN	J	224	-3.093	106.463	200.932	1.00141.67
ATOM	17843	O	GLN	J	224	-3.533	105.629	200.140	1.00141.30
ATOM	17844	CB	GLN	J	224	-3.135	104.646	202.688	1.00142.22
ATOM	17845	CG	GLN	J	224	-2.009	103.766	202.146	1.00141.96
ATOM	17846	CD	GLN	J	224	-1.931	102.411	202.842	1.00141.24
ATOM	17847	OE1	GLN	J	224	-1.048	101.601	202.556	1.00140.40
ATOM	17848	NE2	GLN	J	224	-2.856	102.164	203.762	1.00140.63
ATOM	17849	N	LEU	J	225	-2.691	107.681	200.570	1.00141.50
ATOM	17850	CA	LEU	J	225	-2.745	108.183	199.195	1.00140.95
ATOM	17851	C	LEU	J	225	-2.461	107.146	198.113	1.00140.30
ATOM	17852	O	LEU	J	225	-1.825	106.123	198.364	1.00139.67
ATOM	17853	CB	LEU	J	225	-1.767	109.352	199.028	1.00140.96
ATOM	17854	CG	LEU	J	225	-1.878	110.513	200.022	1.00141.48

ATOM	17855	CD1	LEU	J	225	-0.850	111.575	199.674	1.00141.41
ATOM	17856	CD2	LEU	J	225	-3.278	111.103	199.986	1.00141.05
ATOM	17857	N	THR	J	226	-2.943	107.426	196.906	1.00139.94
ATOM	17858	CA	THR	J	226	-2.736	106.539	195.768	1.00140.65
ATOM	17859	C	THR	J	226	-2.602	107.337	194.478	1.00140.83
ATOM	17860	O	THR	J	226	-3.196	108.406	194.336	1.00141.31
ATOM	17861	CB	THR	J	226	-3.895	105.529	195.597	1.00141.09
ATOM	17862	OG1	THR	J	226	-3.625	104.682	194.470	1.00140.77
ATOM	17863	CG2	THR	J	226	-5.210	106.253	195.367	1.00141.05
ATOM	17864	N	ARG	J	227	-1.821	106.805	193.542	1.00140.62
ATOM	17865	CA	ARG	J	227	-1.587	107.459	192.260	1.00140.34
ATOM	17866	C	ARG	J	227	-2.166	106.682	191.077	1.00139.64
ATOM	17867	O	ARG	J	227	-1.483	105.857	190.466	1.00139.11
ATOM	17868	CB	ARG	J	227	-0.079	107.699	192.061	1.00140.84
ATOM	17869	CG	ARG	J	227	0.843	106.608	192.630	1.00142.03
ATOM	17870	CD	ARG	J	227	2.329	106.941	192.407	1.00142.61
ATOM	17871	NE	ARG	J	227	3.246	105.922	192.931	1.00143.68
ATOM	17872	CZ	ARG	J	227	3.624	105.819	194.205	1.00144.30
ATOM	17873	NH1	ARG	J	227	3.171	106.675	195.109	1.00144.78
ATOM	17874	NH2	ARG	J	227	4.458	104.855	194.580	1.00143.27
ATOM	17875	N	ASN	J	228	-3.433	106.960	190.767	1.00138.83
ATOM	17876	CA	ASN	J	228	-4.146	106.311	189.664	1.00138.29
ATOM	17877	C	ASN	J	228	-4.318	104.818	189.939	1.00138.12
ATOM	17878	O	ASN	J	228	-5.226	104.174	189.404	1.00138.04
ATOM	17879	CB	ASN	J	228	-3.386	106.515	188.342	1.00137.58
ATOM	17880	CG	ASN	J	228	-4.190	106.080	187.121	1.00136.55
ATOM	17881	OD1	ASN	J	228	-3.703	106.139	185.989	1.00134.92
ATOM	17882	ND2	ASN	J	228	-5.427	105.646	187.347	1.00136.53
ATOM	17883	N	GLY	J	229	-3.443	104.281	190.783	1.00137.33
ATOM	17884	CA	GLY	J	229	-3.497	102.873	191.123	1.00135.71
ATOM	17885	C	GLY	J	229	-2.197	102.409	191.746	1.00134.75
ATOM	17886	O	GLY	J	229	-1.614	101.412	191.319	1.00135.18
ATOM	17887	N	THR	J	230	-1.741	103.142	192.757	1.00133.40
ATOM	17888	CA	THR	J	230	-0.504	102.822	193.463	1.00132.08
ATOM	17889	C	THR	J	230	-0.463	103.644	194.746	1.00131.38
ATOM	17890	O	THR	J	230	-0.853	104.807	194.738	1.00131.75
ATOM	17891	CB	THR	J	230	0.736	103.177	192.618	1.00131.78
ATOM	17892	OG1	THR	J	230	0.685	102.484	191.362	1.00130.77
ATOM	17893	CG2	THR	J	230	2.006	102.793	193.361	1.00131.58
ATOM	17894	N	ILE	J	231	0.006	103.055	195.843	1.00130.41
ATOM	17895	CA	ILE	J	231	0.066	103.787	197.108	1.00129.15
ATOM	17896	C	ILE	J	231	1.370	104.563	197.317	1.00128.01
ATOM	17897	O	ILE	J	231	2.466	104.082	197.013	1.00127.10
ATOM	17898	CB	ILE	J	231	-0.187	102.845	198.319	1.00129.56
ATOM	17899	CG1	ILE	J	231	-1.665	102.439	198.351	1.00129.61
ATOM	17900	CG2	ILE	J	231	0.190	103.540	199.624	1.00128.87
ATOM	17901	CD1	ILE	J	231	-2.068	101.628	199.568	1.00129.40
ATOM	17902	N	ILE	J	232	1.221	105.779	197.839	1.00126.92
ATOM	17903	CA	ILE	J	232	2.343	106.675	198.103	1.00125.75
ATOM	17904	C	ILE	J	232	2.708	106.660	199.596	1.00124.70
ATOM	17905	O	ILE	J	232	2.040	107.301	200.418	1.00124.75
ATOM	17906	CB	ILE	J	232	1.995	108.141	197.709	1.00126.32
ATOM	17907	CG1	ILE	J	232	1.093	108.161	196.471	1.00126.21
ATOM	17908	CG2	ILE	J	232	3.274	108.926	197.420	1.00125.69
ATOM	17909	CD1	ILE	J	232	0.608	109.546	196.090	1.00125.70
ATOM	17910	N	PRO	J	233	3.764	105.914	199.968	1.00122.79
ATOM	17911	CA	PRO	J	233	4.197	105.838	201.369	1.00120.24
ATOM	17912	C	PRO	J	233	5.079	107.026	201.778	1.00118.22
ATOM	17913	O	PRO	J	233	5.676	107.688	200.927	1.00118.47
ATOM	17914	CB	PRO	J	233	4.947	104.511	201.417	1.00120.55
ATOM	17915	CG	PRO	J	233	5.566	104.440	200.054	1.00120.96
ATOM	17916	CD	PRO	J	233	4.442	104.889	199.150	1.00121.84

ATOM	17917	N	ALA	J	234	5.159	107.294	203.079	1.00115.26
ATOM	17918	CA	ALA	J	234	5.973	108.400	203.575	1.00112.67
ATOM	17919	C	ALA	J	234	7.450	108.220	203.235	1.00111.04
ATOM	17920	O	ALA	J	234	8.043	107.187	203.541	1.00110.65
ATOM	17921	CB	ALA	J	234	5.810	108.538	205.086	1.00111.56
ATOM	17922	N	ASN	J	235	8.033	109.235	202.601	1.00109.19
ATOM	17923	CA	ASN	J	235	9.447	109.232	202.225	1.00106.28
ATOM	17924	C	ASN	J	235	9.728	108.408	200.971	1.00105.77
ATOM	17925	O	ASN	J	235	10.779	107.783	200.862	1.00106.20
ATOM	17926	CB	ASN	J	235	10.301	108.705	203.389	1.00102.90
ATOM	17927	CG	ASN	J	235	10.037	109.437	204.695	1.00 99.84
ATOM	17928	OD1	ASN	J	235	10.457	108.995	205.762	1.00 96.67
ATOM	17929	ND2	ASN	J	235	9.349	110.567	204.614	1.00 98.91
ATOM	17930	N	ASN	J	236	8.800	108.408	200.021	1.00105.71
ATOM	17931	CA	ASN	J	236	8.995	107.644	198.794	1.00106.54
ATOM	17932	C	ASN	J	236	8.890	108.523	197.558	1.00105.88
ATOM	17933	O	ASN	J	236	7.859	108.560	196.891	1.00105.99
ATOM	17934	CB	ASN	J	236	7.973	106.511	198.698	1.00108.55
ATOM	17935	CG	ASN	J	236	8.202	105.630	197.488	1.00109.89
ATOM	17936	OD1	ASN	J	236	9.246	104.989	197.366	1.00110.13
ATOM	17937	ND2	ASN	J	236	7.228	105.598	196.581	1.00111.34
ATOM	17938	N	THR	J	237	9.975	109.218	197.252	1.00105.94
ATOM	17939	CA	THR	J	237	10.025	110.117	196.110	1.00107.07
ATOM	17940	C	THR	J	237	9.689	109.439	194.787	1.00108.09
ATOM	17941	O	THR	J	237	10.139	108.326	194.517	1.00109.52
ATOM	17942	CB	THR	J	237	11.414	110.748	195.990	1.00106.87
ATOM	17943	OG1	THR	J	237	11.808	111.269	197.264	1.00107.90
ATOM	17944	CG2	THR	J	237	11.397	111.876	194.977	1.00108.36
ATOM	17945	N	VAL	J	238	8.897	110.119	193.962	1.00107.95
ATOM	17946	CA	VAL	J	238	8.510	109.587	192.661	1.00107.57
ATOM	17947	C	VAL	J	238	8.945	110.578	191.591	1.00106.74
ATOM	17948	O	VAL	J	238	9.023	111.779	191.852	1.00105.85
ATOM	17949	CB	VAL	J	238	6.978	109.387	192.558	1.00109.12
ATOM	17950	CG1	VAL	J	238	6.644	108.539	191.326	1.00109.01
ATOM	17951	CG2	VAL	J	238	6.446	108.736	193.833	1.00109.42
ATOM	17952	N	SER	J	239	9.219	110.075	190.389	1.00106.61
ATOM	17953	CA	SER	J	239	9.654	110.920	189.277	1.00105.95
ATOM	17954	C	SER	J	239	8.495	111.563	188.518	1.00105.62
ATOM	17955	O	SER	J	239	7.344	111.135	188.626	1.00106.29
ATOM	17956	CB	SER	J	239	10.509	110.110	188.299	1.00105.00
ATOM	17957	OG	SER	J	239	10.972	110.925	187.238	1.00106.17
ATOM	17958	N	LEU	J	240	8.813	112.601	187.751	1.00105.09
ATOM	17959	CA	LEU	J	240	7.821	113.317	186.960	1.00103.56
ATOM	17960	C	LEU	J	240	8.361	113.558	185.561	1.00102.97
ATOM	17961	O	LEU	J	240	7.627	113.962	184.663	1.00102.57
ATOM	17962	CB	LEU	J	240	7.479	114.655	187.617	1.00102.46
ATOM	17963	CG	LEU	J	240	6.685	114.574	188.920	1.00102.34
ATOM	17964	CD1	LEU	J	240	6.525	115.966	189.506	1.00102.28
ATOM	17965	CD2	LEU	J	240	5.325	113.944	188.650	1.00102.82
ATOM	17966	N	GLY	J	241	9.651	113.294	185.383	1.00102.50
ATOM	17967	CA	GLY	J	241	10.273	113.502	184.093	1.00102.61
ATOM	17968	C	GLY	J	241	10.417	114.985	183.821	1.00103.33
ATOM	17969	O	GLY	J	241	11.010	115.716	184.620	1.00102.91
ATOM	17970	N	ALA	J	242	9.865	115.433	182.697	1.00104.08
ATOM	17971	CA	ALA	J	242	9.925	116.839	182.315	1.00103.37
ATOM	17972	C	ALA	J	242	8.587	117.528	182.561	1.00102.86
ATOM	17973	O	ALA	J	242	7.551	117.091	182.049	1.00102.22
ATOM	17974	CB	ALA	J	242	10.316	116.968	180.845	1.00103.63
ATOM	17975	N	VAL	J	243	8.628	118.601	183.354	1.00102.72
ATOM	17976	CA	VAL	J	243	7.447	119.399	183.691	1.00101.49
ATOM	17977	C	VAL	J	243	7.652	120.841	183.211	1.00102.60
ATOM	17978	O	VAL	J	243	8.357	121.627	183.857	1.00101.53

ATOM	17979	CB	VAL	J	243	7.202	119.426	185.209	1.00	98.52
ATOM	17980	CG1	VAL	J	243	5.845	120.030	185.502	1.00	96.28
ATOM	17981	CG2	VAL	J	243	7.307	118.025	185.774	1.00	98.87
ATOM	17982	N	GLY	J	244	7.033	121.173	182.077	1.00	103.15
ATOM	17983	CA	GLY	J	244	7.158	122.504	181.505	1.00	104.32
ATOM	17984	C	GLY	J	244	6.265	123.539	182.156	1.00	105.04
ATOM	17985	O	GLY	J	244	6.455	123.891	183.319	1.00	105.69
ATOM	17986	N	THR	J	245	5.294	124.039	181.401	1.00	105.43
ATOM	17987	CA	THR	J	245	4.362	125.036	181.912	1.00	105.63
ATOM	17988	C	THR	J	245	2.939	124.502	181.815	1.00	106.44
ATOM	17989	O	THR	J	245	2.030	125.002	182.480	1.00	106.04
ATOM	17990	CB	THR	J	245	4.465	126.347	181.122	1.00	105.45
ATOM	17991	OG1	THR	J	245	4.382	126.069	179.718	1.00	105.33
ATOM	17992	CG2	THR	J	245	5.782	127.043	181.428	1.00	104.15
ATOM	17993	N	SER	J	246	2.766	123.480	180.978	1.00	107.70
ATOM	17994	CA	SER	J	246	1.473	122.835	180.777	1.00	108.82
ATOM	17995	C	SER	J	246	1.169	121.957	181.990	1.00	110.40
ATOM	17996	O	SER	J	246	1.426	120.746	181.989	1.00	110.06
ATOM	17997	CB	SER	J	246	1.501	121.980	179.507	1.00	107.66
ATOM	17998	OG	SER	J	246	2.462	120.947	179.609	1.00	106.95
ATOM	17999	N	ALA	J	247	0.622	122.597	183.020	1.00	111.68
ATOM	18000	CA	ALA	J	247	0.269	121.960	184.286	1.00	113.35
ATOM	18001	C	ALA	J	247	0.113	120.440	184.279	1.00	114.22
ATOM	18002	O	ALA	J	247	-0.505	119.857	183.386	1.00	114.10
ATOM	18003	CB	ALA	J	247	-0.998	122.604	184.846	1.00	113.03
ATOM	18004	N	VAL	J	248	0.690	119.813	185.300	1.00	115.52
ATOM	18005	CA	VAL	J	248	0.623	118.370	185.481	1.00	116.03
ATOM	18006	C	VAL	J	248	0.053	118.130	186.880	1.00	116.72
ATOM	18007	O	VAL	J	248	0.556	118.665	187.870	1.00	114.80
ATOM	18008	CB	VAL	J	248	2.029	117.711	185.363	1.00	115.96
ATOM	18009	CG1	VAL	J	248	1.921	116.203	185.548	1.00	114.83
ATOM	18010	CG2	VAL	J	248	2.642	118.023	184.002	1.00	115.13
ATOM	18011	N	SER	J	249	-1.015	117.342	186.944	1.00	118.56
ATOM	18012	CA	SER	J	249	-1.673	117.021	188.205	1.00	120.90
ATOM	18013	C	SER	J	249	-1.034	115.790	188.839	1.00	122.84
ATOM	18014	O	SER	J	249	-0.743	114.814	188.146	1.00	123.58
ATOM	18015	CB	SER	J	249	-3.164	116.759	187.966	1.00	120.77
ATOM	18016	OG	SER	J	249	-3.834	116.429	189.171	1.00	120.29
ATOM	18017	N	LEU	J	250	-0.820	115.834	190.153	1.00	124.25
ATOM	18018	CA	LEU	J	250	-0.212	114.709	190.864	1.00	125.01
ATOM	18019	C	LEU	J	250	-1.107	113.472	190.898	1.00	126.59
ATOM	18020	O	LEU	J	250	-0.642	112.372	191.207	1.00	126.09
ATOM	18021	CB	LEU	J	250	0.153	115.110	192.298	1.00	123.35
ATOM	18022	CG	LEU	J	250	1.385	115.997	192.498	1.00	121.91
ATOM	18023	CD1	LEU	J	250	1.611	116.236	193.985	1.00	120.88
ATOM	18024	CD2	LEU	J	250	2.603	115.325	191.886	1.00	120.70
ATOM	18025	N	GLY	J	251	-2.384	113.655	190.574	1.00	128.66
ATOM	18026	CA	GLY	J	251	-3.316	112.541	190.576	1.00	130.93
ATOM	18027	C	GLY	J	251	-3.197	111.768	191.870	1.00	132.38
ATOM	18028	O	GLY	J	251	-2.452	110.792	191.957	1.00	131.84
ATOM	18029	N	LEU	J	252	-3.936	112.205	192.881	1.00	134.24
ATOM	18030	CA	LEU	J	252	-3.886	111.561	194.183	1.00	136.77
ATOM	18031	C	LEU	J	252	-5.283	111.263	194.726	1.00	138.73
ATOM	18032	O	LEU	J	252	-6.284	111.721	194.171	1.00	139.12
ATOM	18033	CB	LEU	J	252	-3.134	112.465	195.160	1.00	136.76
ATOM	18034	CG	LEU	J	252	-1.881	113.142	194.597	1.00	136.73
ATOM	18035	CD1	LEU	J	252	-1.267	114.040	195.660	1.00	136.81
ATOM	18036	CD2	LEU	J	252	-0.881	112.091	194.140	1.00	137.87
ATOM	18037	N	THR	J	253	-5.340	110.492	195.811	1.00	140.57
ATOM	18038	CA	THR	J	253	-6.606	110.136	196.451	1.00	141.66
ATOM	18039	C	THR	J	253	-6.436	110.050	197.971	1.00	142.03
ATOM	18040	O	THR	J	253	-5.443	109.512	198.462	1.00	141.92

ATOM	18041	CB	THR	J	253	-7.142	108.775	195.936	1.00141.71
ATOM	18042	OG1	THR	J	253	-7.204	108.789	194.504	1.00142.04
ATOM	18043	CG2	THR	J	253	-8.538	108.510	196.487	1.00141.63
ATOM	18044	N	ALA	J	254	-7.406	110.587	198.707	1.00142.83
ATOM	18045	CA	ALA	J	254	-7.375	110.565	200.169	1.00144.00
ATOM	18046	C	ALA	J	254	-8.109	109.328	200.675	1.00144.36
ATOM	18047	O	ALA	J	254	-9.226	109.419	201.187	1.00144.27
ATOM	18048	CB	ALA	J	254	-8.028	111.829	200.730	1.00144.43
ATOM	18049	N	ASN	J	255	-7.465	108.175	200.531	1.00144.83
ATOM	18050	CA	ASN	J	255	-8.040	106.903	200.943	1.00145.98
ATOM	18051	C	ASN	J	255	-7.979	106.670	202.447	1.00146.82
ATOM	18052	O	ASN	J	255	-6.962	106.947	203.085	1.00146.38
ATOM	18053	CB	ASN	J	255	-7.313	105.756	200.243	1.00146.43
ATOM	18054	CG	ASN	J	255	-7.265	105.927	198.742	1.00147.06
ATOM	18055	OD1	ASN	J	255	-8.297	105.919	198.069	1.00148.72
ATOM	18056	ND2	ASN	J	255	-6.061	106.085	198.205	1.00147.42
ATOM	18057	N	TYR	J	256	-9.075	106.162	203.006	1.00148.00
ATOM	18058	CA	TYR	J	256	-9.130	105.850	204.430	1.00148.65
ATOM	18059	C	TYR	J	256	-8.417	104.511	204.593	1.00148.76
ATOM	18060	O	TYR	J	256	-8.483	103.653	203.710	1.00148.96
ATOM	18061	CB	TYR	J	256	-10.580	105.702	204.920	1.00149.22
ATOM	18062	CG	TYR	J	256	-11.349	106.995	205.141	1.00150.27
ATOM	18063	CD1	TYR	J	256	-11.747	107.795	204.065	1.00149.90
ATOM	18064	CD2	TYR	J	256	-11.715	107.397	206.430	1.00150.56
ATOM	18065	CE1	TYR	J	256	-12.495	108.961	204.268	1.00149.20
ATOM	18066	CE2	TYR	J	256	-12.461	108.559	206.643	1.00149.96
ATOM	18067	CZ	TYR	J	256	-12.847	109.332	205.558	1.00149.69
ATOM	18068	OH	TYR	J	256	-13.592	110.470	205.764	1.00149.52
ATOM	18069	N	ALA	J	257	-7.730	104.337	205.716	1.00148.50
ATOM	18070	CA	ALA	J	257	-7.015	103.097	205.991	1.00147.98
ATOM	18071	C	ALA	J	257	-7.136	102.811	207.479	1.00147.80
ATOM	18072	O	ALA	J	257	-7.156	103.737	208.289	1.00147.95
ATOM	18073	CB	ALA	J	257	-5.551	103.234	205.594	1.00147.74
ATOM	18074	N	ARG	J	258	-7.223	101.537	207.843	1.00147.51
ATOM	18075	CA	ARG	J	258	-7.356	101.178	209.248	1.00147.73
ATOM	18076	C	ARG	J	258	-6.026	100.972	209.956	1.00148.44
ATOM	18077	O	ARG	J	258	-5.163	100.223	209.493	1.00148.33
ATOM	18078	CB	ARG	J	258	-8.233	99.930	209.400	1.00146.52
ATOM	18079	CG	ARG	J	258	-9.713	100.204	209.155	1.00145.50
ATOM	18080	CD	ARG	J	258	-10.577	98.961	209.334	1.00142.64
ATOM	18081	NE	ARG	J	258	-12.000	99.270	209.212	1.00138.90
ATOM	18082	CZ	ARG	J	258	-12.977	98.401	209.439	1.00137.03
ATOM	18083	NH1	ARG	J	258	-12.692	97.158	209.802	1.00135.52
ATOM	18084	NH2	ARG	J	258	-14.241	98.778	209.308	1.00135.03
ATOM	18085	N	THR	J	259	-5.875	101.661	211.084	1.00149.40
ATOM	18086	CA	THR	J	259	-4.673	101.581	211.903	1.00149.79
ATOM	18087	C	THR	J	259	-4.944	100.644	213.079	1.00150.43
ATOM	18088	O	THR	J	259	-4.141	100.533	214.010	1.00150.74
ATOM	18089	CB	THR	J	259	-4.273	102.978	212.426	1.00149.00
ATOM	18090	OG1	THR	J	259	-5.350	103.534	213.191	1.00148.29
ATOM	18091	CG2	THR	J	259	-3.961	103.903	211.261	1.00148.05
ATOM	18092	N	GLY	J	260	-6.089	99.968	213.013	1.00150.67
ATOM	18093	CA	GLY	J	260	-6.481	99.034	214.051	1.00150.20
ATOM	18094	C	GLY	J	260	-7.683	98.207	213.632	1.00150.05
ATOM	18095	O	GLY	J	260	-7.920	97.119	214.161	1.00149.65
ATOM	18096	N	GLY	J	261	-8.437	98.724	212.668	1.00149.88
ATOM	18097	CA	GLY	J	261	-9.617	98.025	212.199	1.00149.63
ATOM	18098	C	GLY	J	261	-10.779	98.288	213.134	1.00149.84
ATOM	18099	O	GLY	J	261	-11.588	97.399	213.393	1.00149.64
ATOM	18100	N	GLN	J	262	-10.857	99.519	213.636	1.00150.23
ATOM	18101	CA	GLN	J	262	-11.908	99.926	214.570	1.00150.49
ATOM	18102	C	GLN	J	262	-12.648	101.175	214.074	1.00151.16

ATOM	18103	O	GLN	J	262	-13.057	102.018	214.873	1.00151.57
ATOM	18104	CB	GLN	J	262	-11.286	100.212	215.946	1.00149.46
ATOM	18105	CG	GLN	J	262	-12.279	100.466	217.076	1.00147.88
ATOM	18106	CD	GLN	J	262	-12.727	99.193	217.757	1.00147.30
ATOM	18107	OE1	GLN	J	262	-13.187	98.260	217.107	1.00148.45
ATOM	18108	NE2	GLN	J	262	-12.596	99.150	219.076	1.00145.90
ATOM	18109	N	VAL	J	263	-12.820	101.291	212.759	1.00151.60
ATOM	18110	CA	VAL	J	263	-13.508	102.445	212.178	1.00151.80
ATOM	18111	C	VAL	J	263	-14.893	102.652	212.784	1.00152.06
ATOM	18112	O	VAL	J	263	-15.700	101.722	212.843	1.00152.07
ATOM	18113	CB	VAL	J	263	-13.665	102.291	210.653	1.00151.54
ATOM	18114	CG1	VAL	J	263	-14.362	103.514	210.077	1.00151.32
ATOM	18115	CG2	VAL	J	263	-12.305	102.105	210.012	1.00151.34
ATOM	18116	N	THR	J	264	-15.167	103.875	213.229	1.00152.06
ATOM	18117	CA	THR	J	264	-16.458	104.191	213.831	1.00152.70
ATOM	18118	C	THR	J	264	-16.924	105.582	213.401	1.00153.50
ATOM	18119	O	THR	J	264	-16.599	106.040	212.303	1.00153.16
ATOM	18120	CB	THR	J	264	-16.377	104.134	215.374	1.00152.18
ATOM	18121	OG1	THR	J	264	-15.569	103.019	215.769	1.00151.65
ATOM	18122	CG2	THR	J	264	-17.770	103.961	215.979	1.00152.37
ATOM	18123	N	ALA	J	265	-17.681	106.248	214.269	1.00154.54
ATOM	18124	CA	ALA	J	265	-18.204	107.582	213.985	1.00155.76
ATOM	18125	C	ALA	J	265	-17.429	108.684	214.710	1.00156.66
ATOM	18126	O	ALA	J	265	-17.116	108.564	215.896	1.00157.17
ATOM	18127	CB	ALA	J	265	-19.681	107.648	214.364	1.00155.54
ATOM	18128	N	GLY	J	266	-17.131	109.759	213.986	1.00157.46
ATOM	18129	CA	GLY	J	266	-16.396	110.872	214.564	1.00158.03
ATOM	18130	C	GLY	J	266	-15.631	111.670	213.521	1.00158.49
ATOM	18131	O	GLY	J	266	-14.867	111.105	212.736	1.00158.08
ATOM	18132	N	ASN	J	267	-15.835	112.986	213.516	1.00159.07
ATOM	18133	CA	ASN	J	267	-15.167	113.878	212.565	1.00159.19
ATOM	18134	C	ASN	J	267	-13.666	113.593	212.474	1.00158.83
ATOM	18135	O	ASN	J	267	-12.989	113.421	213.492	1.00158.90
ATOM	18136	CB	ASN	J	267	-15.402	115.346	212.957	1.00159.56
ATOM	18137	CG	ASN	J	267	-16.850	115.784	212.763	1.00159.41
ATOM	18138	OD1	ASN	J	267	-17.352	115.823	211.639	1.00159.52
ATOM	18139	ND2	ASN	J	267	-17.526	116.114	213.860	1.00158.65
ATOM	18140	N	VAL	J	268	-13.156	113.550	211.246	1.00158.02
ATOM	18141	CA	VAL	J	268	-11.745	113.270	211.000	1.00157.19
ATOM	18142	C	VAL	J	268	-11.063	114.456	210.304	1.00156.53
ATOM	18143	O	VAL	J	268	-11.734	115.386	209.857	1.00156.26
ATOM	18144	CB	VAL	J	268	-11.594	111.995	210.123	1.00157.35
ATOM	18145	CG1	VAL	J	268	-10.150	111.521	210.116	1.00156.97
ATOM	18146	CG2	VAL	J	268	-12.512	110.895	210.642	1.00156.72
ATOM	18147	N	GLN	J	269	-9.732	114.413	210.228	1.00155.80
ATOM	18148	CA	GLN	J	269	-8.921	115.459	209.593	1.00154.48
ATOM	18149	C	GLN	J	269	-7.536	114.897	209.254	1.00153.56
ATOM	18150	O	GLN	J	269	-7.191	113.796	209.682	1.00153.56
ATOM	18151	CB	GLN	J	269	-8.766	116.655	210.537	1.00154.46
ATOM	18152	CG	GLN	J	269	-10.059	117.395	210.831	1.00154.72
ATOM	18153	CD	GLN	J	269	-9.998	118.189	212.119	1.00155.09
ATOM	18154	OE1	GLN	J	269	-9.166	119.083	212.276	1.00154.51
ATOM	18155	NE2	GLN	J	269	-10.883	117.861	213.053	1.00155.17
ATOM	18156	N	SER	J	270	-6.744	115.645	208.490	1.00152.73
ATOM	18157	CA	SER	J	270	-5.402	115.191	208.116	1.00151.80
ATOM	18158	C	SER	J	270	-4.548	116.308	207.515	1.00151.05
ATOM	18159	O	SER	J	270	-5.070	117.280	206.965	1.00150.16
ATOM	18160	CB	SER	J	270	-5.495	114.023	207.125	1.00152.09
ATOM	18161	OG	SER	J	270	-4.215	113.478	206.844	1.00150.91
ATOM	18162	N	ILE	J	271	-3.230	116.155	207.624	1.00150.29
ATOM	18163	CA	ILE	J	271	-2.280	117.141	207.111	1.00148.77
ATOM	18164	C	ILE	J	271	-1.011	116.503	206.522	1.00148.08

ATOM	18165	O	ILE J 271	-0.027	116.275	207.233	1.00147.72
ATOM	18166	CB	ILE J 271	-1.872	118.140	208.227	1.00148.26
ATOM	18167	CG1	ILE J 271	-1.384	117.377	209.464	1.00147.43
ATOM	18168	CG2	ILE J 271	-3.055	119.031	208.585	1.00147.04
ATOM	18169	CD1	ILE J 271	-0.865	118.262	210.582	1.00147.50
ATOM	18170	N	ILE J 272	-1.042	116.224	205.218	1.00146.95
ATOM	18171	CA	ILE J 272	0.094	115.619	204.518	1.00145.78
ATOM	18172	C	ILE J 272	0.954	116.710	203.883	1.00144.73
ATOM	18173	O	ILE J 272	0.441	117.759	203.497	1.00145.58
ATOM	18174	CB	ILE J 272	-0.373	114.672	203.386	1.00146.01
ATOM	18175	CG1	ILE J 272	-1.426	113.691	203.913	1.00146.55
ATOM	18176	CG2	ILE J 272	0.822	113.929	202.807	1.00145.26
ATOM	18177	CD1	ILE J 272	-0.958	112.819	205.057	1.00147.09
ATOM	18178	N	GLY J 273	2.255	116.458	203.772	1.00142.81
ATOM	18179	CA	GLY J 273	3.149	117.439	203.179	1.00140.51
ATOM	18180	C	GLY J 273	3.873	116.910	201.955	1.00138.77
ATOM	18181	O	GLY J 273	4.827	116.142	202.082	1.00139.54
ATOM	18182	N	VAL J 274	3.431	117.324	200.770	1.00136.57
ATOM	18183	CA	VAL J 274	4.041	116.868	199.522	1.00134.22
ATOM	18184	C	VAL J 274	5.338	117.610	199.196	1.00132.53
ATOM	18185	O	VAL J 274	5.356	118.511	198.354	1.00131.85
ATOM	18186	CB	VAL J 274	3.067	117.026	198.329	1.00134.34
ATOM	18187	CG1	VAL J 274	3.650	116.371	197.091	1.00134.24
ATOM	18188	CG2	VAL J 274	1.728	116.401	198.663	1.00134.99
ATOM	18189	N	THR J 275	6.419	117.218	199.866	1.00130.45
ATOM	18190	CA	THR J 275	7.728	117.827	199.657	1.00127.33
ATOM	18191	C	THR J 275	8.231	117.538	198.250	1.00126.13
ATOM	18192	O	THR J 275	8.172	116.403	197.781	1.00124.46
ATOM	18193	CB	THR J 275	8.768	117.282	200.652	1.00126.90
ATOM	18194	OG1	THR J 275	8.318	117.510	201.992	1.00125.68
ATOM	18195	CG2	THR J 275	10.109	117.971	200.447	1.00126.35
ATOM	18196	N	PHE J 276	8.724	118.576	197.583	1.00125.81
ATOM	18197	CA	PHE J 276	9.250	118.452	196.228	1.00125.21
ATOM	18198	C	PHE J 276	10.762	118.620	196.215	1.00124.14
ATOM	18199	O	PHE J 276	11.311	119.445	196.941	1.00124.77
ATOM	18200	CB	PHE J 276	8.629	119.504	195.304	1.00125.13
ATOM	18201	CG	PHE J 276	7.323	119.089	194.698	1.00125.50
ATOM	18202	CD1	PHE J 276	6.230	118.790	195.503	1.00126.33
ATOM	18203	CD2	PHE J 276	7.184	119.008	193.314	1.00125.44
ATOM	18204	CE1	PHE J 276	5.012	118.419	194.938	1.00127.00
ATOM	18205	CE2	PHE J 276	5.972	118.637	192.738	1.00125.77
ATOM	18206	CZ	PHE J 276	4.884	118.342	193.551	1.00126.58
ATOM	18207	N	VAL J 277	11.427	117.830	195.382	1.00122.34
ATOM	18208	CA	VAL J 277	12.872	117.899	195.260	1.00120.53
ATOM	18209	C	VAL J 277	13.165	118.286	193.810	1.00120.31
ATOM	18210	O	VAL J 277	12.728	117.602	192.882	1.00120.16
ATOM	18211	CB	VAL J 277	13.525	116.529	195.590	1.00119.64
ATOM	18212	CG1	VAL J 277	15.036	116.673	195.650	1.00119.03
ATOM	18213	CG2	VAL J 277	12.988	115.995	196.911	1.00116.55
ATOM	18214	N	TYR J 278	13.881	119.392	193.616	1.00119.50
ATOM	18215	CA	TYR J 278	14.213	119.853	192.269	1.00117.99
ATOM	18216	C	TYR J 278	15.612	119.401	191.846	1.00117.59
ATOM	18217	O	TYR J 278	16.416	118.963	192.674	1.00117.71
ATOM	18218	CB	TYR J 278	14.136	121.383	192.179	1.00116.30
ATOM	18219	CG	TYR J 278	12.796	121.991	192.543	1.00115.21
ATOM	18220	CD1	TYR J 278	12.385	122.080	193.875	1.00115.71
ATOM	18221	CD2	TYR J 278	11.949	122.500	191.557	1.00113.46
ATOM	18222	CE1	TYR J 278	11.162	122.666	194.217	1.00115.20
ATOM	18223	CE2	TYR J 278	10.726	123.085	191.886	1.00113.06
ATOM	18224	CZ	TYR J 278	10.339	123.167	193.217	1.00114.49
ATOM	18225	OH	TYR J 278	9.137	123.753	193.551	1.00114.92
ATOM	18226	N	GLN J 279	15.890	119.514	190.549	1.00117.05

ATOM	18227	CA	GLN	J	279	17.186	119.133	189.991	1.00116.27
ATOM	18228	C	GLN	J	279	17.768	120.269	189.158	1.00116.45
ATOM	18229	O	GLN	J	279	18.945	120.614	189.383	1.00116.93
ATOM	18230	CB	GLN	J	279	17.057	117.891	189.106	1.00115.49
ATOM	18231	CG	GLN	J	279	18.391	117.397	188.567	1.00113.88
ATOM	18232	CD	GLN	J	279	18.241	116.395	187.444	1.00113.14
ATOM	18233	OE1	GLN	J	279	19.227	115.863	186.934	1.00112.82
ATOM	18234	NE2	GLN	J	279	17.003	116.135	187.046	1.00113.51
ATOM	18235	OXT	GLN	J	279	17.045	120.785	188.278	1.00116.28
ATOM	18236	N	GLY	K	1	59.222	137.675	142.414	1.00113.59
ATOM	18237	CA	GLY	K	1	59.008	136.517	141.517	1.00113.91
ATOM	18238	C	GLY	K	1	59.340	135.204	142.191	1.00114.86
ATOM	18239	O	GLY	K	1	60.489	134.967	142.569	1.00114.83
ATOM	18240	N	VAL	K	2	58.329	134.355	142.352	1.00116.18
ATOM	18241	CA	VAL	K	2	58.511	133.047	142.981	1.00117.14
ATOM	18242	C	VAL	K	2	58.314	131.967	141.911	1.00117.62
ATOM	18243	O	VAL	K	2	57.201	131.744	141.426	1.00116.81
ATOM	18244	CB	VAL	K	2	57.494	132.828	144.156	1.00117.14
ATOM	18245	CG1	VAL	K	2	57.842	131.557	144.930	1.00115.27
ATOM	18246	CG2	VAL	K	2	57.503	134.031	145.097	1.00115.24
ATOM	18247	N	ALA	K	3	59.409	131.310	141.539	1.00118.65
ATOM	18248	CA	ALA	K	3	59.375	130.269	140.516	1.00120.05
ATOM	18249	C	ALA	K	3	60.186	129.041	140.926	1.00120.57
ATOM	18250	O	ALA	K	3	61.331	128.878	140.504	1.00120.62
ATOM	18251	CB	ALA	K	3	59.911	130.828	139.200	1.00119.89
ATOM	18252	N	LEU	K	4	59.589	128.177	141.742	1.00121.21
ATOM	18253	CA	LEU	K	4	60.275	126.975	142.195	1.00121.92
ATOM	18254	C	LEU	K	4	60.965	126.252	141.050	1.00122.27
ATOM	18255	O	LEU	K	4	60.332	125.915	140.049	1.00121.46
ATOM	18256	CB	LEU	K	4	59.296	126.016	142.881	1.00122.54
ATOM	18257	CG	LEU	K	4	58.984	126.259	144.362	1.00122.74
ATOM	18258	CD1	LEU	K	4	58.021	125.193	144.870	1.00121.71
ATOM	18259	CD2	LEU	K	4	60.277	126.226	145.165	1.00122.80
ATOM	18260	N	GLY	K	5	62.268	126.021	141.206	1.00122.91
ATOM	18261	CA	GLY	K	5	63.027	125.320	140.186	1.00122.90
ATOM	18262	C	GLY	K	5	62.317	124.027	139.846	1.00122.53
ATOM	18263	O	GLY	K	5	62.515	123.452	138.773	1.00122.43
ATOM	18264	N	ALA	K	6	61.482	123.576	140.781	1.00121.55
ATOM	18265	CA	ALA	K	6	60.697	122.360	140.617	1.00119.54
ATOM	18266	C	ALA	K	6	59.217	122.660	140.834	1.00117.89
ATOM	18267	O	ALA	K	6	58.833	123.320	141.804	1.00118.02
ATOM	18268	CB	ALA	K	6	61.161	121.292	141.601	1.00119.97
ATOM	18269	N	THR	K	7	58.394	122.164	139.917	1.00114.96
ATOM	18270	CA	THR	K	7	56.953	122.355	139.977	1.00110.81
ATOM	18271	C	THR	K	7	56.253	121.038	140.306	1.00109.39
ATOM	18272	O	THR	K	7	55.046	121.002	140.532	1.00109.75
ATOM	18273	CB	THR	K	7	56.438	122.878	138.635	1.00109.17
ATOM	18274	OG1	THR	K	7	57.044	122.132	137.572	1.00107.87
ATOM	18275	CG2	THR	K	7	56.782	124.344	138.475	1.00108.00
ATOM	18276	N	ARG	K	8	57.030	119.962	140.343	1.00107.89
ATOM	18277	CA	ARG	K	8	56.510	118.631	140.625	1.00106.10
ATOM	18278	C	ARG	K	8	57.675	117.688	140.921	1.00106.18
ATOM	18279	O	ARG	K	8	58.485	117.396	140.040	1.00105.62
ATOM	18280	CB	ARG	K	8	55.716	118.136	139.416	1.00103.75
ATOM	18281	CG	ARG	K	8	56.492	118.209	138.112	1.00103.11
ATOM	18282	CD	ARG	K	8	55.606	118.500	136.906	1.00101.10
ATOM	18283	NE	ARG	K	8	54.600	117.470	136.686	1.00100.80
ATOM	18284	CZ	ARG	K	8	53.456	117.376	137.359	1.00101.57
ATOM	18285	NH1	ARG	K	8	53.148	118.267	138.294	1.00 99.63
ATOM	18286	NH2	ARG	K	8	52.606	116.394	137.085	1.00101.65
ATOM	18287	N	VAL	K	9	57.751	117.217	142.166	1.00106.50
ATOM	18288	CA	VAL	K	9	58.822	116.321	142.602	1.00106.16

ATOM	18289	C	VAL	K	9	58.368	114.873	142.810	1.00107.12
ATOM	18290	O	VAL	K	9	57.223	114.615	143.183	1.00106.90
ATOM	18291	CB	VAL	K	9	59.455	116.824	143.923	1.00104.29
ATOM	18292	CG1	VAL	K	9	60.619	115.933	144.320	1.00102.91
ATOM	18293	CG2	VAL	K	9	59.913	118.261	143.763	1.00104.38
ATOM	18294	N	ILE	K	10	59.282	113.937	142.559	1.00108.43
ATOM	18295	CA	ILE	K	10	59.021	112.507	142.728	1.00109.36
ATOM	18296	C	ILE	K	10	59.874	111.992	143.885	1.00110.97
ATOM	18297	O	ILE	K	10	61.103	112.050	143.837	1.00111.03
ATOM	18298	CB	ILE	K	10	59.379	111.709	141.450	1.00107.81
ATOM	18299	CG1	ILE	K	10	58.435	112.098	140.307	1.00107.25
ATOM	18300	CG2	ILE	K	10	59.320	110.210	141.730	1.00105.93
ATOM	18301	CD1	ILE	K	10	56.976	111.766	140.554	1.00106.45
ATOM	18302	N	TYR	K	11	59.220	111.485	144.923	1.00112.58
ATOM	18303	CA	TYR	K	11	59.932	110.982	146.089	1.00115.38
ATOM	18304	C	TYR	K	11	60.138	109.471	146.039	1.00116.85
ATOM	18305	O	TYR	K	11	59.176	108.705	146.118	1.00117.23
ATOM	18306	CB	TYR	K	11	59.161	111.338	147.365	1.00116.55
ATOM	18307	CG	TYR	K	11	59.971	111.243	148.646	1.00117.03
ATOM	18308	CD1	TYR	K	11	60.839	112.268	149.022	1.00116.59
ATOM	18309	CD2	TYR	K	11	59.862	110.133	149.485	1.00118.03
ATOM	18310	CE1	TYR	K	11	61.576	112.194	150.204	1.00117.40
ATOM	18311	CE2	TYR	K	11	60.596	110.048	150.671	1.00118.46
ATOM	18312	CZ	TYR	K	11	61.449	111.083	151.023	1.00118.20
ATOM	18313	OH	TYR	K	11	62.164	111.010	152.196	1.00118.13
ATOM	18314	N	PRO	K	12	61.396	109.020	145.885	1.00118.22
ATOM	18315	CA	PRO	K	12	61.683	107.580	145.839	1.00119.77
ATOM	18316	C	PRO	K	12	61.356	106.925	147.194	1.00121.19
ATOM	18317	O	PRO	K	12	61.049	107.619	148.169	1.00121.84
ATOM	18318	CB	PRO	K	12	63.176	107.540	145.517	1.00118.50
ATOM	18319	CG	PRO	K	12	63.362	108.765	144.680	1.00118.12
ATOM	18320	CD	PRO	K	12	62.566	109.798	145.441	1.00118.19
ATOM	18321	N	ALA	K	13	61.415	105.599	147.259	1.00121.74
ATOM	18322	CA	ALA	K	13	61.117	104.896	148.504	1.00122.13
ATOM	18323	C	ALA	K	13	62.387	104.597	149.294	1.00122.42
ATOM	18324	O	ALA	K	13	63.458	104.412	148.716	1.00122.28
ATOM	18325	CB	ALA	K	13	60.373	103.603	148.207	1.00123.15
ATOM	18326	N	GLY	K	14	62.261	104.548	150.616	1.00122.53
ATOM	18327	CA	GLY	K	14	63.412	104.274	151.457	1.00122.50
ATOM	18328	C	GLY	K	14	64.448	105.381	151.390	1.00122.38
ATOM	18329	O	GLY	K	14	65.617	105.171	151.715	1.00121.84
ATOM	18330	N	GLN	K	15	64.016	106.564	150.961	1.00122.61
ATOM	18331	CA	GLN	K	15	64.899	107.720	150.849	1.00122.60
ATOM	18332	C	GLN	K	15	64.776	108.645	152.048	1.00122.77
ATOM	18333	O	GLN	K	15	63.725	108.721	152.684	1.00121.99
ATOM	18334	CB	GLN	K	15	64.591	108.505	149.571	1.00122.67
ATOM	18335	CG	GLN	K	15	65.454	108.116	148.387	1.00123.24
ATOM	18336	CD	GLN	K	15	66.899	108.547	148.560	1.00124.40
ATOM	18337	OE1	GLN	K	15	67.525	108.272	149.587	1.00126.10
ATOM	18338	NE2	GLN	K	15	67.439	109.222	147.551	1.00123.34
ATOM	18339	N	LYS	K	16	65.860	109.352	152.348	1.00123.33
ATOM	18340	CA	LYS	K	16	65.884	110.278	153.472	1.00124.05
ATOM	18341	C	LYS	K	16	65.452	111.674	153.034	1.00124.36
ATOM	18342	O	LYS	K	16	64.328	112.101	153.306	1.00124.24
ATOM	18343	CB	LYS	K	16	67.293	110.332	154.077	1.00123.98
ATOM	18344	CG	LYS	K	16	67.476	111.356	155.194	1.00122.54
ATOM	18345	CD	LYS	K	16	68.928	111.408	155.654	1.00121.34
ATOM	18346	CE	LYS	K	16	69.161	112.529	156.651	1.00121.84
ATOM	18347	NZ	LYS	K	16	70.576	112.581	157.109	1.00122.59
ATOM	18348	N	GLN	K	17	66.344	112.379	152.347	1.00124.62
ATOM	18349	CA	GLN	K	17	66.051	113.728	151.892	1.00125.23
ATOM	18350	C	GLN	K	17	66.068	113.876	150.377	1.00125.30

ATOM	18351	O	GLN	K	17	66.814	113.191	149.680	1.00125.21
ATOM	18352	CB	GLN	K	17	67.042	114.722	152.513	1.00125.52
ATOM	18353	CG	GLN	K	17	68.510	114.403	152.255	1.00126.15
ATOM	18354	CD	GLN	K	17	69.442	115.498	152.744	1.00126.43
ATOM	18355	OE1	GLN	K	17	69.362	115.930	153.894	1.00127.33
ATOM	18356	NE2	GLN	K	17	70.338	115.948	151.869	1.00126.20
ATOM	18357	N	VAL	K	18	65.226	114.780	149.883	1.00125.39
ATOM	18358	CA	VAL	K	18	65.126	115.074	148.460	1.00125.49
ATOM	18359	C	VAL	K	18	65.233	116.589	148.312	1.00126.05
ATOM	18360	O	VAL	K	18	64.240	117.305	148.456	1.00127.57
ATOM	18361	CB	VAL	K	18	63.775	114.589	147.875	1.00124.71
ATOM	18362	CG1	VAL	K	18	63.637	115.032	146.426	1.00124.10
ATOM	18363	CG2	VAL	K	18	63.695	113.081	147.957	1.00123.80
ATOM	18364	N	GLN	K	19	66.441	117.073	148.036	1.00125.60
ATOM	18365	CA	GLN	K	19	66.680	118.505	147.886	1.00125.05
ATOM	18366	C	GLN	K	19	65.926	119.168	146.732	1.00124.91
ATOM	18367	O	GLN	K	19	65.419	118.504	145.825	1.00124.19
ATOM	18368	CB	GLN	K	19	68.178	118.782	147.716	1.00124.61
ATOM	18369	CG	GLN	K	19	69.050	118.330	148.874	1.00124.73
ATOM	18370	CD	GLN	K	19	70.489	118.801	148.735	1.00124.76
ATOM	18371	OE1	GLN	K	19	71.354	118.435	149.532	1.00124.71
ATOM	18372	NE2	GLN	K	19	70.749	119.623	147.722	1.00124.37
ATOM	18373	N	LEU	K	20	65.864	120.494	146.790	1.00124.97
ATOM	18374	CA	LEU	K	20	65.208	121.304	145.772	1.00124.80
ATOM	18375	C	LEU	K	20	65.530	122.773	146.008	1.00124.41
ATOM	18376	O	LEU	K	20	65.413	123.275	147.123	1.00123.84
ATOM	18377	CB	LEU	K	20	63.692	121.103	145.797	1.00125.44
ATOM	18378	CG	LEU	K	20	62.931	122.094	144.908	1.00125.95
ATOM	18379	CD1	LEU	K	20	63.551	122.106	143.519	1.00126.75
ATOM	18380	CD2	LEU	K	20	61.454	121.726	144.849	1.00125.87
ATOM	18381	N	ALA	K	21	65.928	123.458	144.944	1.00124.39
ATOM	18382	CA	ALA	K	21	66.287	124.864	145.031	1.00124.50
ATOM	18383	C	ALA	K	21	65.087	125.794	145.153	1.00124.62
ATOM	18384	O	ALA	K	21	63.977	125.468	144.732	1.00124.17
ATOM	18385	CB	ALA	K	21	67.124	125.257	143.821	1.00124.96
ATOM	18386	N	VAL	K	22	65.337	126.959	145.741	1.00124.83
ATOM	18387	CA	VAL	K	22	64.321	127.984	145.928	1.00125.08
ATOM	18388	C	VAL	K	22	64.975	129.315	145.581	1.00125.30
ATOM	18389	O	VAL	K	22	65.794	129.828	146.344	1.00124.72
ATOM	18390	CB	VAL	K	22	63.826	128.030	147.391	1.00125.27
ATOM	18391	CG1	VAL	K	22	62.669	129.011	147.520	1.00125.34
ATOM	18392	CG2	VAL	K	22	63.402	126.645	147.840	1.00124.49
ATOM	18393	N	THR	K	23	64.625	129.863	144.421	1.00126.13
ATOM	18394	CA	THR	K	23	65.188	131.131	143.967	1.00127.40
ATOM	18395	C	THR	K	23	64.219	132.281	144.198	1.00129.53
ATOM	18396	O	THR	K	23	63.025	132.071	144.409	1.00130.01
ATOM	18397	CB	THR	K	23	65.527	131.089	142.462	1.00125.52
ATOM	18398	OG1	THR	K	23	66.385	129.976	142.195	1.00124.60
ATOM	18399	CG2	THR	K	23	66.225	132.369	142.036	1.00123.54
ATOM	18400	N	ASN	K	24	64.741	133.500	144.161	1.00131.83
ATOM	18401	CA	ASN	K	24	63.925	134.686	144.349	1.00134.57
ATOM	18402	C	ASN	K	24	64.194	135.631	143.188	1.00135.98
ATOM	18403	O	ASN	K	24	65.206	136.326	143.174	1.00135.92
ATOM	18404	CB	ASN	K	24	64.274	135.367	145.672	1.00135.41
ATOM	18405	CG	ASN	K	24	63.420	136.590	145.937	1.00137.33
ATOM	18406	OD1	ASN	K	24	62.187	136.523	145.907	1.00137.64
ATOM	18407	ND2	ASN	K	24	64.070	137.717	146.201	1.00137.35
ATOM	18408	N	ASN	K	25	63.290	135.650	142.213	1.00137.54
ATOM	18409	CA	ASN	K	25	63.456	136.509	141.045	1.00138.97
ATOM	18410	C	ASN	K	25	63.359	137.992	141.402	1.00140.56
ATOM	18411	O	ASN	K	25	63.632	138.858	140.567	1.00141.03
ATOM	18412	CB	ASN	K	25	62.416	136.166	139.976	1.00137.22

ATOM	18413	CG	ASN	K	25	62.740	136.791	138.635	1.00135.57
ATOM	18414	OD1	ASN	K	25	63.744	136.452	138.008	1.00134.02
ATOM	18415	ND2	ASN	K	25	61.895	137.713	138.191	1.00134.28
ATOM	18416	N	ASP	K	26	62.963	138.280	142.640	1.00142.36
ATOM	18417	CA	ASP	K	26	62.850	139.660	143.113	1.00143.97
ATOM	18418	C	ASP	K	26	64.264	140.184	143.364	1.00144.29
ATOM	18419	O	ASP	K	26	64.948	139.708	144.271	1.00144.94
ATOM	18420	CB	ASP	K	26	62.046	139.721	144.423	1.00145.19
ATOM	18421	CG	ASP	K	26	60.601	139.261	144.259	1.00146.19
ATOM	18422	OD1	ASP	K	26	59.834	139.933	143.534	1.00146.32
ATOM	18423	OD2	ASP	K	26	60.230	138.228	144.860	1.00145.91
ATOM	18424	N	GLU	K	27	64.702	141.152	142.562	1.00144.37
ATOM	18425	CA	GLU	K	27	66.042	141.724	142.708	1.00144.15
ATOM	18426	C	GLU	K	27	66.411	142.034	144.158	1.00144.37
ATOM	18427	O	GLU	K	27	67.311	141.412	144.728	1.00144.28
ATOM	18428	CB	GLU	K	27	66.172	143.000	141.866	1.00143.36
ATOM	18429	CG	GLU	K	27	66.487	142.758	140.397	1.00142.43
ATOM	18430	CD	GLU	K	27	67.876	142.172	140.181	1.00141.97
ATOM	18431	OE1	GLU	K	27	68.170	141.101	140.752	1.00141.72
ATOM	18432	OE2	GLU	K	27	68.675	142.780	139.438	1.00140.79
ATOM	18433	N	ASN	K	28	65.713	143.000	144.749	1.00144.32
ATOM	18434	CA	ASN	K	28	65.973	143.399	146.127	1.00144.18
ATOM	18435	C	ASN	K	28	64.714	143.341	146.990	1.00144.06
ATOM	18436	O	ASN	K	28	63.762	144.090	146.768	1.00143.86
ATOM	18437	CB	ASN	K	28	66.561	144.812	146.157	1.00144.34
ATOM	18438	CG	ASN	K	28	65.736	145.810	145.360	1.00144.33
ATOM	18439	OD1	ASN	K	28	66.085	146.989	145.273	1.00144.18
ATOM	18440	ND2	ASN	K	28	64.639	145.343	144.773	1.00143.76
ATOM	18441	N	SER	K	29	64.726	142.447	147.976	1.00143.77
ATOM	18442	CA	SER	K	29	63.597	142.270	148.885	1.00142.95
ATOM	18443	C	SER	K	29	63.818	141.058	149.785	1.00142.58
ATOM	18444	O	SER	K	29	64.394	140.055	149.356	1.00142.77
ATOM	18445	CB	SER	K	29	62.299	142.085	148.089	1.00143.03
ATOM	18446	OG	SER	K	29	62.424	141.043	147.136	1.00141.38
ATOM	18447	N	THR	K	30	63.358	141.154	151.030	1.00141.70
ATOM	18448	CA	THR	K	30	63.503	140.057	151.983	1.00141.19
ATOM	18449	C	THR	K	30	62.157	139.426	152.332	1.00141.54
ATOM	18450	O	THR	K	30	61.162	140.126	152.544	1.00141.89
ATOM	18451	CB	THR	K	30	64.158	140.524	153.296	1.00140.21
ATOM	18452	OG1	THR	K	30	65.371	141.224	153.004	1.00140.10
ATOM	18453	CG2	THR	K	30	64.483	139.327	154.182	1.00139.45
ATOM	18454	N	TYR	K	31	62.138	138.097	152.385	1.00141.17
ATOM	18455	CA	TYR	K	31	60.932	137.347	152.719	1.00140.31
ATOM	18456	C	TYR	K	31	61.300	136.246	153.704	1.00140.52
ATOM	18457	O	TYR	K	31	62.206	135.454	153.442	1.00140.99
ATOM	18458	CB	TYR	K	31	60.319	136.709	151.469	1.00138.69
ATOM	18459	CG	TYR	K	31	60.168	137.648	150.297	1.00137.98
ATOM	18460	CD1	TYR	K	31	61.251	137.934	149.465	1.00137.44
ATOM	18461	CD2	TYR	K	31	58.949	138.267	150.028	1.00137.46
ATOM	18462	CE1	TYR	K	31	61.125	138.813	148.395	1.00137.00
ATOM	18463	CE2	TYR	K	31	58.812	139.151	148.961	1.00137.24
ATOM	18464	CZ	TYR	K	31	59.905	139.420	148.148	1.00136.94
ATOM	18465	OH	TYR	K	31	59.783	140.301	147.096	1.00136.03
ATOM	18466	N	LEU	K	32	60.605	136.206	154.839	1.00140.39
ATOM	18467	CA	LEU	K	32	60.854	135.189	155.856	1.00139.56
ATOM	18468	C	LEU	K	32	60.491	133.823	155.274	1.00139.04
ATOM	18469	O	LEU	K	32	59.499	133.210	155.670	1.00139.35
ATOM	18470	CB	LEU	K	32	60.008	135.469	157.105	1.00139.41
ATOM	18471	CG	LEU	K	32	60.293	136.752	157.894	1.00139.21
ATOM	18472	CD1	LEU	K	32	59.228	136.945	158.958	1.00138.84
ATOM	18473	CD2	LEU	K	32	61.671	136.673	158.530	1.00139.31
ATOM	18474	N	ILE	K	33	61.306	133.362	154.329	1.00138.40

ATOM	18475	CA	ILE	K	33	61.091	132.084	153.660	1.00137.67
ATOM	18476	C	ILE	K	33	60.598	131.018	154.630	1.00138.16
ATOM	18477	O	ILE	K	33	61.082	130.910	155.760	1.00137.71
ATOM	18478	CB	ILE	K	33	62.383	131.581	152.988	1.00136.65
ATOM	18479	CG1	ILE	K	33	63.055	132.725	152.228	1.00136.04
ATOM	18480	CG2	ILE	K	33	62.058	130.448	152.029	1.00135.39
ATOM	18481	CD1	ILE	K	33	62.196	133.332	151.142	1.00137.60
ATOM	18482	N	GLN	K	34	59.629	130.231	154.177	1.00138.51
ATOM	18483	CA	GLN	K	34	59.055	129.181	155.001	1.00138.56
ATOM	18484	C	GLN	K	34	58.625	128.028	154.106	1.00138.53
ATOM	18485	O	GLN	K	34	57.881	128.218	153.145	1.00138.21
ATOM	18486	CB	GLN	K	34	57.858	129.740	155.771	1.00138.71
ATOM	18487	CG	GLN	K	34	57.385	128.891	156.930	1.00138.21
ATOM	18488	CD	GLN	K	34	56.395	129.632	157.810	1.00138.31
ATOM	18489	OE1	GLN	K	34	55.340	130.072	157.349	1.00138.80
ATOM	18490	NE2	GLN	K	34	56.734	129.781	159.085	1.00137.52
ATOM	18491	N	SER	K	35	59.107	126.831	154.424	1.00138.86
ATOM	18492	CA	SER	K	35	58.784	125.643	153.644	1.00139.11
ATOM	18493	C	SER	K	35	58.175	124.533	154.502	1.00138.45
ATOM	18494	O	SER	K	35	58.546	124.358	155.666	1.00138.62
ATOM	18495	CB	SER	K	35	60.046	125.136	152.934	1.00140.05
ATOM	18496	OG	SER	K	35	61.132	125.009	153.839	1.00140.46
ATOM	18497	N	TRP	K	36	57.238	123.788	153.920	1.00137.21
ATOM	18498	CA	TRP	K	36	56.571	122.700	154.627	1.00135.95
ATOM	18499	C	TRP	K	36	55.735	121.857	153.666	1.00134.21
ATOM	18500	O	TRP	K	36	55.369	122.313	152.579	1.00133.29
ATOM	18501	CB	TRP	K	36	55.671	123.271	155.726	1.00138.35
ATOM	18502	CG	TRP	K	36	54.480	124.023	155.194	1.00141.23
ATOM	18503	CD1	TRP	K	36	53.304	123.489	154.738	1.00142.22
ATOM	18504	CD2	TRP	K	36	54.368	125.441	155.023	1.00141.84
ATOM	18505	NE1	TRP	K	36	52.470	124.487	154.292	1.00142.68
ATOM	18506	CE2	TRP	K	36	53.097	125.695	154.455	1.00142.58
ATOM	18507	CE3	TRP	K	36	55.218	126.523	155.292	1.00141.14
ATOM	18508	CZ2	TRP	K	36	52.657	126.987	154.151	1.00142.71
ATOM	18509	CZ3	TRP	K	36	54.779	127.807	154.989	1.00141.78
ATOM	18510	CH2	TRP	K	36	53.509	128.026	154.425	1.00142.59
ATOM	18511	N	VAL	K	37	55.434	120.629	154.078	1.00132.40
ATOM	18512	CA	VAL	K	37	54.635	119.710	153.273	1.00130.29
ATOM	18513	C	VAL	K	37	53.342	119.389	154.014	1.00129.40
ATOM	18514	O	VAL	K	37	53.317	119.355	155.243	1.00129.16
ATOM	18515	CB	VAL	K	37	55.390	118.386	153.010	1.00129.70
ATOM	18516	CG1	VAL	K	37	54.555	117.473	152.124	1.00128.71
ATOM	18517	CG2	VAL	K	37	56.733	118.674	152.362	1.00129.57
ATOM	18518	N	GLU	K	38	52.272	119.152	153.264	1.00128.36
ATOM	18519	CA	GLU	K	38	50.977	118.833	153.858	1.00126.91
ATOM	18520	C	GLU	K	38	50.658	117.347	153.647	1.00126.95
ATOM	18521	O	GLU	K	38	51.341	116.475	154.192	1.00127.42
ATOM	18522	CB	GLU	K	38	49.892	119.721	153.230	1.00125.44
ATOM	18523	CG	GLU	K	38	50.250	121.214	153.216	1.00121.89
ATOM	18524	CD	GLU	K	38	49.226	122.079	152.490	1.00118.58
ATOM	18525	OE1	GLU	K	38	48.877	121.757	151.333	1.00115.72
ATOM	18526	OE2	GLU	K	38	48.779	123.089	153.074	1.00115.81
ATOM	18527	N	ASN	K	39	49.622	117.064	152.859	1.00126.53
ATOM	18528	CA	ASN	K	39	49.210	115.691	152.555	1.00125.44
ATOM	18529	C	ASN	K	39	48.221	115.716	151.384	1.00124.92
ATOM	18530	O	ASN	K	39	47.835	116.789	150.918	1.00124.57
ATOM	18531	CB	ASN	K	39	48.586	115.023	153.801	1.00124.73
ATOM	18532	CG	ASN	K	39	47.072	114.854	153.701	1.00123.24
ATOM	18533	OD1	ASN	K	39	46.325	115.826	153.584	1.00122.14
ATOM	18534	ND2	ASN	K	39	46.616	113.609	153.759	1.00122.05
ATOM	18535	N	ALA	K	40	47.821	114.544	150.901	1.00124.18
ATOM	18536	CA	ALA	K	40	46.889	114.463	149.777	1.00123.15

ATOM	18537	C	ALA	K	40	45.652	115.332	149.988	1.00122.61
ATOM	18538	O	ALA	K	40	45.148	115.948	149.045	1.00122.17
ATOM	18539	CB	ALA	K	40	46.475	113.016	149.544	1.00123.50
ATOM	18540	N	ASP	K	41	45.167	115.376	151.225	1.00121.87
ATOM	18541	CA	ASP	K	41	43.991	116.169	151.560	1.00121.65
ATOM	18542	C	ASP	K	41	44.407	117.547	152.053	1.00122.48
ATOM	18543	O	ASP	K	41	43.690	118.194	152.820	1.00121.93
ATOM	18544	CB	ASP	K	41	43.163	115.458	152.630	1.00120.16
ATOM	18545	CG	ASP	K	41	42.690	114.090	152.181	1.00119.10
ATOM	18546	OD1	ASP	K	41	43.548	113.222	151.919	1.00118.60
ATOM	18547	OD2	ASP	K	41	41.463	113.883	152.087	1.00118.27
ATOM	18548	N	GLY	K	42	45.578	117.984	151.603	1.00123.61
ATOM	18549	CA	GLY	K	42	46.096	119.285	151.980	1.00125.50
ATOM	18550	C	GLY	K	42	46.145	119.552	153.472	1.00126.52
ATOM	18551	O	GLY	K	42	45.743	120.625	153.920	1.00127.19
ATOM	18552	N	VAL	K	43	46.639	118.589	154.244	1.00127.30
ATOM	18553	CA	VAL	K	43	46.730	118.751	155.690	1.00128.11
ATOM	18554	C	VAL	K	43	48.173	118.652	156.169	1.00128.63
ATOM	18555	O	VAL	K	43	48.844	117.643	155.948	1.00128.33
ATOM	18556	CB	VAL	K	43	45.895	117.685	156.432	1.00128.26
ATOM	18557	CG1	VAL	K	43	46.025	117.879	157.937	1.00128.69
ATOM	18558	CG2	VAL	K	43	44.436	117.776	156.005	1.00127.68
ATOM	18559	N	LYS	K	44	48.650	119.703	156.825	1.00129.69
ATOM	18560	CA	LYS	K	44	50.013	119.703	157.328	1.00130.59
ATOM	18561	C	LYS	K	44	50.067	118.863	158.595	1.00130.73
ATOM	18562	O	LYS	K	44	49.046	118.645	159.252	1.00129.08
ATOM	18563	CB	LYS	K	44	50.486	121.127	157.632	1.00131.26
ATOM	18564	CG	LYS	K	44	49.935	121.714	158.921	1.00132.21
ATOM	18565	CD	LYS	K	44	50.719	122.952	159.321	1.00133.00
ATOM	18566	CE	LYS	K	44	50.478	124.123	158.379	1.00133.55
ATOM	18567	NZ	LYS	K	44	49.158	124.763	158.628	1.00132.95
ATOM	18568	N	ASP	K	45	51.263	118.389	158.930	1.00131.94
ATOM	18569	CA	ASP	K	45	51.456	117.559	160.110	1.00133.34
ATOM	18570	C	ASP	K	45	52.929	117.225	160.362	1.00133.85
ATOM	18571	O	ASP	K	45	53.617	117.937	161.096	1.00133.01
ATOM	18572	CB	ASP	K	45	50.638	116.269	159.966	1.00134.92
ATOM	18573	CG	ASP	K	45	50.168	116.027	158.537	1.00136.20
ATOM	18574	OD1	ASP	K	45	51.023	115.833	157.644	1.00137.20
ATOM	18575	OD2	ASP	K	45	48.938	116.041	158.309	1.00136.53
ATOM	18576	N	GLY	K	46	53.405	116.140	159.755	1.00134.73
ATOM	18577	CA	GLY	K	46	54.789	115.738	159.934	1.00135.53
ATOM	18578	C	GLY	K	46	55.165	114.508	159.130	1.00136.32
ATOM	18579	O	GLY	K	46	56.249	113.950	159.312	1.00136.44
ATOM	18580	N	ARG	K	47	54.273	114.080	158.240	1.00137.31
ATOM	18581	CA	ARG	K	47	54.528	112.909	157.402	1.00138.13
ATOM	18582	C	ARG	K	47	55.616	113.205	156.380	1.00138.27
ATOM	18583	O	ARG	K	47	55.848	112.422	155.458	1.00138.04
ATOM	18584	CB	ARG	K	47	53.256	112.480	156.665	1.00137.97
ATOM	18585	CG	ARG	K	47	52.798	111.078	157.017	1.00137.14
ATOM	18586	CD	ARG	K	47	52.112	111.048	158.374	1.00136.88
ATOM	18587	NE	ARG	K	47	52.085	109.704	158.943	1.00134.67
ATOM	18588	CZ	ARG	K	47	53.101	109.150	159.595	1.00133.23
ATOM	18589	NH1	ARG	K	47	54.230	109.826	159.768	1.00130.87
ATOM	18590	NH2	ARG	K	47	52.990	107.918	160.069	1.00133.03
ATOM	18591	N	PHE	K	48	56.271	114.348	156.556	1.00138.38
ATOM	18592	CA	PHE	K	48	57.343	114.797	155.676	1.00138.28
ATOM	18593	C	PHE	K	48	57.936	116.077	156.256	1.00138.32
ATOM	18594	O	PHE	K	48	57.217	117.047	156.496	1.00139.10
ATOM	18595	CB	PHE	K	48	56.799	115.066	154.266	1.00137.99
ATOM	18596	CG	PHE	K	48	57.131	113.991	153.261	1.00136.87
ATOM	18597	CD1	PHE	K	48	58.067	113.000	153.551	1.00136.73
ATOM	18598	CD2	PHE	K	48	56.512	113.979	152.015	1.00136.12

ATOM	18599	CE1	PHE	K	48	58.377	112.015	152.616	1.00136.24
ATOM	18600	CE2	PHE	K	48	56.815	112.998	151.073	1.00135.29
ATOM	18601	CZ	PHE	K	48	57.748	112.015	151.374	1.00135.75
ATOM	18602	N	ILE	K	49	59.243	116.072	156.489	1.00137.79
ATOM	18603	CA	ILE	K	49	59.917	117.239	157.043	1.00137.52
ATOM	18604	C	ILE	K	49	60.645	118.013	155.945	1.00137.75
ATOM	18605	O	ILE	K	49	61.013	117.450	154.913	1.00136.79
ATOM	18606	CB	ILE	K	49	60.919	116.822	158.163	1.00136.95
ATOM	18607	CG1	ILE	K	49	60.158	116.470	159.446	1.00135.75
ATOM	18608	CG2	ILE	K	49	61.890	117.955	158.464	1.00137.50
ATOM	18609	CD1	ILE	K	49	59.176	115.334	159.305	1.00135.65
ATOM	18610	N	VAL	K	50	60.824	119.312	156.170	1.00138.55
ATOM	18611	CA	VAL	K	50	61.510	120.180	155.220	1.00139.10
ATOM	18612	C	VAL	K	50	62.640	120.921	155.927	1.00139.51
ATOM	18613	O	VAL	K	50	62.454	121.459	157.021	1.00139.70
ATOM	18614	CB	VAL	K	50	60.546	121.219	154.610	1.00138.71
ATOM	18615	CG1	VAL	K	50	61.279	122.058	153.578	1.00138.23
ATOM	18616	CG2	VAL	K	50	59.355	120.515	153.978	1.00138.39
ATOM	18617	N	THR	K	51	63.810	120.939	155.297	1.00139.72
ATOM	18618	CA	THR	K	51	64.976	121.607	155.860	1.00140.37
ATOM	18619	C	THR	K	51	65.863	122.172	154.750	1.00141.30
ATOM	18620	O	THR	K	51	66.206	121.466	153.805	1.00141.99
ATOM	18621	CB	THR	K	51	65.811	120.627	156.721	1.00139.68
ATOM	18622	OG1	THR	K	51	66.081	119.435	155.972	1.00139.48
ATOM	18623	CG2	THR	K	51	65.060	120.259	157.991	1.00138.68
ATOM	18624	N	PRO	K	52	66.234	123.461	154.841	1.00142.18
ATOM	18625	CA	PRO	K	52	65.896	124.427	155.895	1.00143.10
ATOM	18626	C	PRO	K	52	64.416	124.834	155.892	1.00143.92
ATOM	18627	O	PRO	K	52	63.886	125.292	154.876	1.00143.87
ATOM	18628	CB	PRO	K	52	66.828	125.597	155.593	1.00142.86
ATOM	18629	CG	PRO	K	52	66.950	125.541	154.103	1.00142.01
ATOM	18630	CD	PRO	K	52	67.134	124.069	153.845	1.00141.87
ATOM	18631	N	PRO	K	53	63.737	124.680	157.043	1.00144.42
ATOM	18632	CA	PRO	K	53	62.316	125.017	157.205	1.00144.45
ATOM	18633	C	PRO	K	53	61.976	126.499	157.026	1.00144.17
ATOM	18634	O	PRO	K	53	61.130	126.857	156.205	1.00143.60
ATOM	18635	CB	PRO	K	53	62.005	124.506	158.612	1.00144.43
ATOM	18636	CG	PRO	K	53	63.303	124.712	159.331	1.00144.57
ATOM	18637	CD	PRO	K	53	64.317	124.224	158.322	1.00144.24
ATOM	18638	N	LEU	K	54	62.636	127.351	157.804	1.00144.18
ATOM	18639	CA	LEU	K	54	62.413	128.791	157.743	1.00143.90
ATOM	18640	C	LEU	K	54	63.745	129.543	157.785	1.00143.79
ATOM	18641	O	LEU	K	54	64.593	129.284	158.643	1.00143.56
ATOM	18642	CB	LEU	K	54	61.511	129.229	158.907	1.00142.99
ATOM	18643	CG	LEU	K	54	61.233	130.720	159.125	1.00142.53
ATOM	18644	CD1	LEU	K	54	59.976	130.886	159.959	1.00142.41
ATOM	18645	CD2	LEU	K	54	62.418	131.382	159.813	1.00142.06
ATOM	18646	N	PHE	K	55	63.921	130.470	156.848	1.00143.18
ATOM	18647	CA	PHE	K	55	65.142	131.262	156.766	1.00142.53
ATOM	18648	C	PHE	K	55	64.892	132.570	156.021	1.00142.43
ATOM	18649	O	PHE	K	55	63.883	132.710	155.331	1.00142.95
ATOM	18650	CB	PHE	K	55	66.246	130.451	156.065	1.00142.00
ATOM	18651	CG	PHE	K	55	65.890	129.994	154.665	1.00140.95
ATOM	18652	CD1	PHE	K	55	65.769	130.908	153.619	1.00140.16
ATOM	18653	CD2	PHE	K	55	65.707	128.642	154.389	1.00140.57
ATOM	18654	CE1	PHE	K	55	65.475	130.479	152.321	1.00138.78
ATOM	18655	CE2	PHE	K	55	65.413	128.207	153.092	1.00139.59
ATOM	18656	CZ	PHE	K	55	65.297	129.129	152.059	1.00138.75
ATOM	18657	N	ALA	K	56	65.808	133.527	156.163	1.00141.93
ATOM	18658	CA	ALA	K	56	65.676	134.817	155.486	1.00141.04
ATOM	18659	C	ALA	K	56	66.433	134.816	154.154	1.00140.23
ATOM	18660	O	ALA	K	56	67.637	134.559	154.111	1.00139.45

ATOM	18661	CB	ALA	K	56	66.191	135.939	156.389	1.00141.11
ATOM	18662	N	MET	K	57	65.722	135.100	153.067	1.00139.42
ATOM	18663	CA	MET	K	57	66.334	135.121	151.745	1.00139.30
ATOM	18664	C	MET	K	57	66.463	136.523	151.164	1.00139.27
ATOM	18665	O	MET	K	57	65.946	136.807	150.079	1.00138.98
ATOM	18666	CB	MET	K	57	65.533	134.246	150.782	1.00139.60
ATOM	18667	CG	MET	K	57	66.230	132.956	150.398	1.00139.61
ATOM	18668	SD	MET	K	57	65.225	131.935	149.307	1.00141.07
ATOM	18669	CE	MET	K	57	65.338	132.870	147.764	1.00139.27
ATOM	18670	N	LYS	K	58	67.160	137.393	151.890	1.00139.26
ATOM	18671	CA	LYS	K	58	67.374	138.769	151.454	1.00139.06
ATOM	18672	C	LYS	K	58	67.735	138.844	149.974	1.00139.24
ATOM	18673	O	LYS	K	58	68.306	137.905	149.413	1.00138.79
ATOM	18674	CB	LYS	K	58	68.483	139.423	152.284	1.00138.51
ATOM	18675	CG	LYS	K	58	67.997	140.132	153.537	1.00137.51
ATOM	18676	CD	LYS	K	58	68.421	141.598	153.529	1.00137.72
ATOM	18677	CE	LYS	K	58	67.939	142.315	152.267	1.00137.94
ATOM	18678	NZ	LYS	K	58	68.335	143.751	152.221	1.00137.46
ATOM	18679	N	GLY	K	59	67.402	139.968	149.348	1.00139.27
ATOM	18680	CA	GLY	K	59	67.697	140.139	147.940	1.00138.80
ATOM	18681	C	GLY	K	59	67.097	139.015	147.121	1.00138.63
ATOM	18682	O	GLY	K	59	65.941	138.642	147.325	1.00137.90
ATOM	18683	N	LYS	K	60	67.893	138.459	146.212	1.00138.46
ATOM	18684	CA	LYS	K	60	67.434	137.380	145.342	1.00138.67
ATOM	18685	C	LYS	K	60	68.323	136.129	145.355	1.00138.95
ATOM	18686	O	LYS	K	60	68.595	135.542	144.304	1.00138.52
ATOM	18687	CB	LYS	K	60	67.290	137.913	143.908	1.00138.04
ATOM	18688	CG	LYS	K	60	68.522	138.629	143.357	1.00136.57
ATOM	18689	CD	LYS	K	60	69.377	137.709	142.499	1.00135.00
ATOM	18690	CE	LYS	K	60	68.710	137.417	141.163	1.00134.21
ATOM	18691	NZ	LYS	K	60	68.600	138.635	140.310	1.00131.87
ATOM	18692	N	LYS	K	61	68.763	135.715	146.544	1.00139.27
ATOM	18693	CA	LYS	K	61	69.610	134.527	146.670	1.00138.72
ATOM	18694	C	LYS	K	61	68.886	133.288	146.164	1.00138.61
ATOM	18695	O	LYS	K	61	67.695	133.329	145.863	1.00138.99
ATOM	18696	CB	LYS	K	61	70.030	134.290	148.129	1.00138.32
ATOM	18697	CG	LYS	K	61	71.064	135.273	148.672	1.00138.58
ATOM	18698	CD	LYS	K	61	72.224	134.551	149.362	1.00137.88
ATOM	18699	CE	LYS	K	61	71.750	133.673	150.516	1.00137.59
ATOM	18700	NZ	LYS	K	61	72.871	132.919	151.149	1.00135.92
ATOM	18701	N	GLU	K	62	69.619	132.185	146.079	1.00138.60
ATOM	18702	CA	GLU	K	62	69.063	130.921	145.615	1.00138.85
ATOM	18703	C	GLU	K	62	69.436	129.866	146.646	1.00139.64
ATOM	18704	O	GLU	K	62	70.527	129.300	146.594	1.00140.55
ATOM	18705	CB	GLU	K	62	69.658	130.552	144.250	1.00137.60
ATOM	18706	CG	GLU	K	62	68.902	129.477	143.465	1.00135.65
ATOM	18707	CD	GLU	K	62	68.828	128.136	144.179	1.00134.87
ATOM	18708	OE1	GLU	K	62	68.092	128.026	145.185	1.00133.43
ATOM	18709	OE2	GLU	K	62	69.509	127.189	143.729	1.00133.95
ATOM	18710	N	ASN	K	63	68.535	129.606	147.587	1.00140.20
ATOM	18711	CA	ASN	K	63	68.797	128.621	148.628	1.00141.01
ATOM	18712	C	ASN	K	63	67.872	127.415	148.499	1.00141.03
ATOM	18713	O	ASN	K	63	66.653	127.534	148.646	1.00141.73
ATOM	18714	CB	ASN	K	63	68.639	129.272	150.006	1.00142.17
ATOM	18715	CG	ASN	K	63	69.539	130.487	150.183	1.00143.30
ATOM	18716	OD1	ASN	K	63	69.431	131.470	149.441	1.00142.92
ATOM	18717	ND2	ASN	K	63	70.434	130.425	151.167	1.00143.56
ATOM	18718	N	THR	K	64	68.466	126.255	148.224	1.00140.43
ATOM	18719	CA	THR	K	64	67.718	125.012	148.057	1.00139.89
ATOM	18720	C	THR	K	64	66.961	124.610	149.326	1.00140.21
ATOM	18721	O	THR	K	64	66.759	125.423	150.230	1.00140.98
ATOM	18722	CB	THR	K	64	68.656	123.841	147.645	1.00138.83

ATOM	18723	OG1	THR	K	64	69.567	123.552	148.711	1.00138.13
ATOM	18724	CG2	THR	K	64	69.456	124.204	146.401	1.00137.83
ATOM	18725	N	LEU	K	65	66.537	123.350	149.374	1.00139.90
ATOM	18726	CA	LEU	K	65	65.803	122.802	150.513	1.00138.61
ATOM	18727	C	LEU	K	65	65.931	121.285	150.474	1.00137.74
ATOM	18728	O	LEU	K	65	66.395	120.725	149.484	1.00137.72
ATOM	18729	CB	LEU	K	65	64.321	123.185	150.439	1.00138.80
ATOM	18730	CG	LEU	K	65	63.915	124.656	150.573	1.00138.49
ATOM	18731	CD1	LEU	K	65	62.412	124.793	150.356	1.00138.21
ATOM	18732	CD2	LEU	K	65	64.305	125.174	151.947	1.00138.01
ATOM	18733	N	ARG	K	66	65.522	120.622	151.548	1.00136.70
ATOM	18734	CA	ARG	K	66	65.592	119.167	151.612	1.00135.96
ATOM	18735	C	ARG	K	66	64.250	118.574	152.055	1.00135.62
ATOM	18736	O	ARG	K	66	63.548	119.151	152.889	1.00135.10
ATOM	18737	CB	ARG	K	66	66.704	118.721	152.580	1.00135.63
ATOM	18738	CG	ARG	K	66	68.145	119.028	152.131	1.00136.04
ATOM	18739	CD	ARG	K	66	68.712	120.315	152.753	1.00135.52
ATOM	18740	NE	ARG	K	66	70.111	120.571	152.389	1.00134.11
ATOM	18741	CZ	ARG	K	66	71.141	119.799	152.735	1.00133.27
ATOM	18742	NH1	ARG	K	66	70.949	118.706	153.461	1.00133.65
ATOM	18743	NH2	ARG	K	66	72.371	120.119	152.353	1.00131.84
ATOM	18744	N	ILE	K	67	63.896	117.425	151.479	1.00134.99
ATOM	18745	CA	ILE	K	67	62.650	116.735	151.813	1.00134.07
ATOM	18746	C	ILE	K	67	62.938	115.523	152.707	1.00133.76
ATOM	18747	O	ILE	K	67	63.090	114.397	152.224	1.00133.09
ATOM	18748	CB	ILE	K	67	61.902	116.255	150.535	1.00133.41
ATOM	18749	CG1	ILE	K	67	61.474	117.457	149.690	1.00132.05
ATOM	18750	CG2	ILE	K	67	60.671	115.444	150.920	1.00133.99
ATOM	18751	CD1	ILE	K	67	60.672	117.087	148.453	1.00130.25
ATOM	18752	N	LEU	K	68	63.012	115.766	154.012	1.00133.64
ATOM	18753	CA	LEU	K	68	63.284	114.710	154.982	1.00133.88
ATOM	18754	C	LEU	K	68	62.016	113.894	155.263	1.00134.03
ATOM	18755	O	LEU	K	68	60.929	114.242	154.798	1.00134.28
ATOM	18756	CB	LEU	K	68	63.812	115.328	156.283	1.00133.30
ATOM	18757	CG	LEU	K	68	65.017	116.272	156.171	1.00131.96
ATOM	18758	CD1	LEU	K	68	65.306	116.891	157.528	1.00131.40
ATOM	18759	CD2	LEU	K	68	66.231	115.516	155.658	1.00130.97
ATOM	18760	N	ASP	K	69	62.160	112.810	156.021	1.00133.44
ATOM	18761	CA	ASP	K	69	61.024	111.955	156.352	1.00132.69
ATOM	18762	C	ASP	K	69	61.095	111.485	157.805	1.00132.62
ATOM	18763	O	ASP	K	69	62.130	110.994	158.257	1.00133.17
ATOM	18764	CB	ASP	K	69	60.990	110.749	155.406	1.00132.21
ATOM	18765	CG	ASP	K	69	59.732	109.913	155.565	1.00132.75
ATOM	18766	OD1	ASP	K	69	58.944	110.193	156.495	1.00131.67
ATOM	18767	OD2	ASP	K	69	59.531	108.975	154.762	1.00132.82
ATOM	18768	N	ALA	K	70	59.992	111.638	158.535	1.00132.13
ATOM	18769	CA	ALA	K	70	59.940	111.229	159.934	1.00131.48
ATOM	18770	C	ALA	K	70	58.963	110.078	160.148	1.00131.31
ATOM	18771	O	ALA	K	70	59.013	109.397	161.172	1.00130.78
ATOM	18772	CB	ALA	K	70	59.548	112.410	160.807	1.00130.85
ATOM	18773	N	THR	K	71	58.081	109.862	159.175	1.00131.74
ATOM	18774	CA	THR	K	71	57.084	108.796	159.256	1.00131.50
ATOM	18775	C	THR	K	71	57.721	107.427	159.491	1.00130.71
ATOM	18776	O	THR	K	71	58.940	107.309	159.633	1.00130.53
ATOM	18777	CB	THR	K	71	56.229	108.721	157.962	1.00131.68
ATOM	18778	OG1	THR	K	71	55.106	107.857	158.179	1.00130.84
ATOM	18779	CG2	THR	K	71	57.050	108.172	156.802	1.00131.47
ATOM	18780	N	ASN	K	72	56.883	106.396	159.538	1.00129.96
ATOM	18781	CA	ASN	K	72	57.348	105.028	159.745	1.00129.47
ATOM	18782	C	ASN	K	72	57.219	104.229	158.453	1.00128.17
ATOM	18783	O	ASN	K	72	57.125	103.000	158.481	1.00128.68
ATOM	18784	CB	ASN	K	72	56.534	104.337	160.848	1.00130.75

ATOM	18785	CG	ASN	K	72	56.808	104.909	162.230	1.00131.76
ATOM	18786	OD1	ASN	K	72	56.307	104.394	163.233	1.00130.74
ATOM	18787	ND2	ASN	K	72	57.604	105.976	162.290	1.00131.50
ATOM	18788	N	ASN	K	73	57.211	104.932	157.324	1.00126.15
ATOM	18789	CA	ASN	K	73	57.090	104.289	156.022	1.00123.68
ATOM	18790	C	ASN	K	73	55.704	103.654	155.870	1.00122.40
ATOM	18791	O	ASN	K	73	55.478	102.861	154.956	1.00122.35
ATOM	18792	CB	ASN	K	73	58.175	103.212	155.859	1.00123.08
ATOM	18793	CG	ASN	K	73	59.587	103.751	156.078	1.00121.65
ATOM	18794	OD1	ASN	K	73	59.893	104.322	157.125	1.00120.23
ATOM	18795	ND2	ASN	K	73	60.453	103.557	155.090	1.00120.54
ATOM	18796	N	GLN	K	74	54.783	104.005	156.768	1.00120.93
ATOM	18797	CA	GLN	K	74	53.420	103.470	156.740	1.00119.15
ATOM	18798	C	GLN	K	74	52.569	104.089	155.635	1.00118.51
ATOM	18799	O	GLN	K	74	51.517	104.673	155.905	1.00118.41
ATOM	18800	CB	GLN	K	74	52.714	103.694	158.086	1.00119.02
ATOM	18801	CG	GLN	K	74	53.266	102.878	159.247	1.00119.23
ATOM	18802	CD	GLN	K	74	52.406	102.978	160.502	1.00118.69
ATOM	18803	OE1	GLN	K	74	52.756	102.435	161.552	1.00117.67
ATOM	18804	NE2	GLN	K	74	51.274	103.669	160.396	1.00117.59
ATOM	18805	N	LEU	K	75	53.027	103.953	154.393	1.00117.48
ATOM	18806	CA	LEU	K	75	52.316	104.488	153.233	1.00115.23
ATOM	18807	C	LEU	K	75	52.285	103.417	152.134	1.00113.51
ATOM	18808	O	LEU	K	75	53.245	102.660	151.978	1.00112.44
ATOM	18809	CB	LEU	K	75	53.026	105.750	152.725	1.00114.46
ATOM	18810	CG	LEU	K	75	53.363	106.825	153.767	1.00113.26
ATOM	18811	CD1	LEU	K	75	54.233	107.897	153.134	1.00112.53
ATOM	18812	CD2	LEU	K	75	52.085	107.427	154.327	1.00112.52
ATOM	18813	N	PRO	K	76	51.180	103.337	151.365	1.00112.55
ATOM	18814	CA	PRO	K	76	51.041	102.350	150.286	1.00111.78
ATOM	18815	C	PRO	K	76	52.330	102.157	149.489	1.00111.46
ATOM	18816	O	PRO	K	76	53.041	103.124	149.202	1.00111.43
ATOM	18817	CB	PRO	K	76	49.910	102.928	149.441	1.00111.18
ATOM	18818	CG	PRO	K	76	49.025	103.539	150.474	1.00110.90
ATOM	18819	CD	PRO	K	76	50.017	104.247	151.387	1.00112.60
ATOM	18820	N	GLN	K	77	52.630	100.910	149.133	1.00110.68
ATOM	18821	CA	GLN	K	77	53.845	100.619	148.382	1.00110.25
ATOM	18822	C	GLN	K	77	53.594	100.036	146.994	1.00109.39
ATOM	18823	O	GLN	K	77	54.536	99.787	146.238	1.00109.19
ATOM	18824	CB	GLN	K	77	54.747	99.679	149.185	1.00111.52
ATOM	18825	CG	GLN	K	77	55.002	100.136	150.617	1.00112.38
ATOM	18826	CD	GLN	K	77	55.601	101.539	150.725	1.00112.68
ATOM	18827	OE1	GLN	K	77	55.795	102.058	151.829	1.00110.83
ATOM	18828	NE2	GLN	K	77	55.897	102.154	149.584	1.00111.69
ATOM	18829	N	ASP	K	78	52.328	99.806	146.661	1.00108.13
ATOM	18830	CA	ASP	K	78	51.986	99.286	145.344	1.00106.48
ATOM	18831	C	ASP	K	78	51.736	100.472	144.415	1.00107.50
ATOM	18832	O	ASP	K	78	51.988	100.398	143.214	1.00106.92
ATOM	18833	CB	ASP	K	78	50.741	98.395	145.415	1.00103.11
ATOM	18834	CG	ASP	K	78	49.537	99.104	146.007	1.00100.52
ATOM	18835	OD1	ASP	K	78	49.665	100.262	146.453	1.00 99.76
ATOM	18836	OD2	ASP	K	78	48.452	98.494	146.028	1.00 99.13
ATOM	18837	N	ARG	K	79	51.254	101.569	144.997	1.00108.85
ATOM	18838	CA	ARG	K	79	50.957	102.793	144.258	1.00108.95
ATOM	18839	C	ARG	K	79	51.537	104.028	144.961	1.00108.74
ATOM	18840	O	ARG	K	79	52.241	103.908	145.964	1.00108.47
ATOM	18841	CB	ARG	K	79	49.442	102.947	144.102	1.00109.36
ATOM	18842	CG	ARG	K	79	48.696	103.103	145.414	1.00109.72
ATOM	18843	CD	ARG	K	79	47.204	103.263	145.175	1.00111.93
ATOM	18844	NE	ARG	K	79	46.571	102.019	144.741	1.00112.76
ATOM	18845	CZ	ARG	K	79	46.488	100.922	145.490	1.00112.80
ATOM	18846	NH1	ARG	K	79	47.003	100.913	146.713	1.00113.08

ATOM	18847	NH2	ARG	K	79	45.880	99.839	145.024	1.00111.54
ATOM	18848	N	GLU	K	80	51.231	105.212	144.434	1.00108.30
ATOM	18849	CA	GLU	K	80	51.728	106.469	144.999	1.00106.67
ATOM	18850	C	GLU	K	80	50.754	107.108	145.993	1.00106.47
ATOM	18851	O	GLU	K	80	49.542	106.904	145.912	1.00105.79
ATOM	18852	CB	GLU	K	80	52.011	107.465	143.870	1.00105.47
ATOM	18853	CG	GLU	K	80	53.085	107.030	142.893	1.00101.00
ATOM	18854	CD	GLU	K	80	53.141	107.913	141.662	1.00 98.19
ATOM	18855	OE1	GLU	K	80	52.235	108.752	141.482	1.00 96.25
ATOM	18856	OE2	GLU	K	80	54.089	107.762	140.869	1.00 97.36
ATOM	18857	N	SER	K	81	51.293	107.882	146.931	1.00106.19
ATOM	18858	CA	SER	K	81	50.474	108.572	147.921	1.00107.00
ATOM	18859	C	SER	K	81	50.704	110.073	147.799	1.00108.22
ATOM	18860	O	SER	K	81	51.649	110.613	148.372	1.00107.89
ATOM	18861	CB	SER	K	81	50.825	108.105	149.332	1.00105.95
ATOM	18862	OG	SER	K	81	50.267	106.831	149.589	1.00105.81
ATOM	18863	N	LEU	K	82	49.825	110.734	147.048	1.00109.62
ATOM	18864	CA	LEU	K	82	49.901	112.171	146.795	1.00110.09
ATOM	18865	C	LEU	K	82	50.099	113.043	148.027	1.00111.29
ATOM	18866	O	LEU	K	82	49.452	112.852	149.053	1.00110.83
ATOM	18867	CB	LEU	K	82	48.642	112.633	146.057	1.00109.35
ATOM	18868	CG	LEU	K	82	48.575	114.099	145.614	1.00108.90
ATOM	18869	CD1	LEU	K	82	49.580	114.351	144.505	1.00107.20
ATOM	18870	CD2	LEU	K	82	47.170	114.419	145.129	1.00108.41
ATOM	18871	N	PHE	K	83	51.008	114.004	147.900	1.00113.98
ATOM	18872	CA	PHE	K	83	51.319	114.962	148.958	1.00116.51
ATOM	18873	C	PHE	K	83	51.318	116.349	148.320	1.00118.29
ATOM	18874	O	PHE	K	83	51.077	116.482	147.115	1.00117.68
ATOM	18875	CB	PHE	K	83	52.702	114.694	149.565	1.00115.89
ATOM	18876	CG	PHE	K	83	52.713	113.632	150.626	1.00115.90
ATOM	18877	CD1	PHE	K	83	52.483	112.302	150.303	1.00115.55
ATOM	18878	CD2	PHE	K	83	52.967	113.966	151.955	1.00116.44
ATOM	18879	CE1	PHE	K	83	52.507	111.314	151.285	1.00116.14
ATOM	18880	CE2	PHE	K	83	52.994	112.987	152.948	1.00116.50
ATOM	18881	CZ	PHE	K	83	52.764	111.657	152.612	1.00115.92
ATOM	18882	N	TRP	K	84	51.595	117.377	149.122	1.00120.65
ATOM	18883	CA	TRP	K	84	51.627	118.748	148.613	1.00121.97
ATOM	18884	C	TRP	K	84	52.704	119.632	149.243	1.00121.79
ATOM	18885	O	TRP	K	84	52.753	119.812	150.462	1.00120.33
ATOM	18886	CB	TRP	K	84	50.258	119.420	148.793	1.00123.10
ATOM	18887	CG	TRP	K	84	49.168	118.843	147.930	1.00123.96
ATOM	18888	CD1	TRP	K	84	48.117	118.073	148.340	1.00124.10
ATOM	18889	CD2	TRP	K	84	49.022	118.996	146.510	1.00124.47
ATOM	18890	NE1	TRP	K	84	47.325	117.737	147.266	1.00125.16
ATOM	18891	CE2	TRP	K	84	47.857	118.290	146.131	1.00124.68
ATOM	18892	CE3	TRP	K	84	49.763	119.661	145.522	1.00124.36
ATOM	18893	CZ2	TRP	K	84	47.414	118.231	144.804	1.00123.97
ATOM	18894	CZ3	TRP	K	84	49.321	119.602	144.201	1.00124.33
ATOM	18895	CH2	TRP	K	84	48.157	118.891	143.857	1.00124.12
ATOM	18896	N	MET	K	85	53.565	120.177	148.390	1.00122.70
ATOM	18897	CA	MET	K	85	54.632	121.066	148.826	1.00124.47
ATOM	18898	C	MET	K	85	54.239	122.494	148.484	1.00124.98
ATOM	18899	O	MET	K	85	53.690	122.756	147.412	1.00125.16
ATOM	18900	CB	MET	K	85	55.947	120.732	148.121	1.00125.38
ATOM	18901	CG	MET	K	85	56.662	119.507	148.649	1.00127.49
ATOM	18902	SD	MET	K	85	58.231	119.252	147.800	1.00130.62
ATOM	18903	CE	MET	K	85	59.233	120.538	148.559	1.00130.75
ATOM	18904	N	ASN	K	86	54.515	123.419	149.395	1.00125.28
ATOM	18905	CA	ASN	K	86	54.183	124.812	149.156	1.00125.85
ATOM	18906	C	ASN	K	86	55.234	125.747	149.730	1.00126.77
ATOM	18907	O	ASN	K	86	55.475	125.763	150.939	1.00127.51
ATOM	18908	CB	ASN	K	86	52.812	125.145	149.753	1.00125.56

ATOM	18909	CG	ASN	K	86	51.700	124.297	149.167	1.00125.19
ATOM	18910	OD1	ASN	K	86	51.585	123.110	149.469	1.00126.53
ATOM	18911	ND2	ASN	K	86	50.880	124.902	148.316	1.00124.30
ATOM	18912	N	VAL	K	87	55.866	126.515	148.849	1.00127.06
ATOM	18913	CA	VAL	K	87	56.881	127.473	149.261	1.00127.33
ATOM	18914	C	VAL	K	87	56.215	128.841	149.363	1.00127.33
ATOM	18915	O	VAL	K	87	55.702	129.376	148.377	1.00126.15
ATOM	18916	CB	VAL	K	87	58.053	127.534	148.246	1.00127.94
ATOM	18917	CG1	VAL	K	87	59.102	128.542	148.709	1.00127.14
ATOM	18918	CG2	VAL	K	87	58.686	126.157	148.102	1.00128.06
ATOM	18919	N	LYS	K	88	56.214	129.386	150.573	1.00128.08
ATOM	18920	CA	LYS	K	88	55.607	130.683	150.843	1.00129.54
ATOM	18921	C	LYS	K	88	56.621	131.602	151.512	1.00131.14
ATOM	18922	O	LYS	K	88	57.011	131.377	152.661	1.00131.43
ATOM	18923	CB	LYS	K	88	54.393	130.506	151.760	1.00128.20
ATOM	18924	CG	LYS	K	88	53.633	131.786	152.053	1.00126.49
ATOM	18925	CD	LYS	K	88	52.605	131.583	153.157	1.00125.57
ATOM	18926	CE	LYS	K	88	53.278	131.321	154.498	1.00125.53
ATOM	18927	NZ	LYS	K	88	52.307	131.258	155.627	1.00124.84
ATOM	18928	N	ALA	K	89	57.046	132.635	150.790	1.00132.60
ATOM	18929	CA	ALA	K	89	58.015	133.592	151.316	1.00133.93
ATOM	18930	C	ALA	K	89	57.299	134.767	151.973	1.00134.82
ATOM	18931	O	ALA	K	89	57.196	135.848	151.390	1.00134.78
ATOM	18932	CB	ALA	K	89	58.921	134.087	150.194	1.00133.06
ATOM	18933	N	ILE	K	90	56.805	134.541	153.188	1.00135.99
ATOM	18934	CA	ILE	K	90	56.095	135.567	153.944	1.00137.60
ATOM	18935	C	ILE	K	90	56.877	136.874	153.913	1.00139.29
ATOM	18936	O	ILE	K	90	57.872	137.026	154.619	1.00139.88
ATOM	18937	CB	ILE	K	90	55.914	135.149	155.417	1.00137.13
ATOM	18938	CG1	ILE	K	90	55.317	133.743	155.492	1.00136.88
ATOM	18939	CG2	ILE	K	90	55.014	136.147	156.130	1.00136.69
ATOM	18940	CD1	ILE	K	90	55.131	133.223	156.905	1.00137.04
ATOM	18941	N	PRO	K	91	56.436	137.840	153.093	1.00140.89
ATOM	18942	CA	PRO	K	91	57.134	139.124	153.004	1.00142.08
ATOM	18943	C	PRO	K	91	57.025	139.933	154.291	1.00143.22
ATOM	18944	O	PRO	K	91	55.925	140.184	154.786	1.00143.47
ATOM	18945	CB	PRO	K	91	56.441	139.804	151.830	1.00141.69
ATOM	18946	CG	PRO	K	91	55.036	139.326	151.975	1.00141.58
ATOM	18947	CD	PRO	K	91	55.219	137.849	152.262	1.00141.29
ATOM	18948	N	SER	K	92	58.170	140.329	154.836	1.00144.38
ATOM	18949	CA	SER	K	92	58.188	141.123	156.056	1.00145.52
ATOM	18950	C	SER	K	92	57.734	142.537	155.704	1.00146.94
ATOM	18951	O	SER	K	92	58.266	143.155	154.778	1.00147.97
ATOM	18952	CB	SER	K	92	59.599	141.156	156.651	1.00144.92
ATOM	18953	OG	SER	K	92	60.044	139.855	156.992	1.00143.62
ATOM	18954	N	MET	K	93	56.741	143.039	156.433	1.00147.60
ATOM	18955	CA	MET	K	93	56.211	144.381	156.199	1.00148.08
ATOM	18956	C	MET	K	93	57.347	145.395	156.072	1.00147.89
ATOM	18957	O	MET	K	93	58.234	145.453	156.925	1.00147.77
ATOM	18958	CB	MET	K	93	55.296	144.783	157.356	1.00149.36
ATOM	18959	CG	MET	K	93	54.586	146.109	157.165	1.00149.93
ATOM	18960	SD	MET	K	93	54.021	146.785	158.737	1.00152.53
ATOM	18961	CE	MET	K	93	52.742	145.609	159.195	1.00151.11
ATOM	18962	N	ASP	K	94	57.315	146.195	155.010	1.00147.59
ATOM	18963	CA	ASP	K	94	58.350	147.201	154.777	1.00147.70
ATOM	18964	C	ASP	K	94	58.383	148.262	155.878	1.00148.09
ATOM	18965	O	ASP	K	94	57.986	148.000	157.014	1.00148.39
ATOM	18966	CB	ASP	K	94	58.131	147.871	153.419	1.00147.35
ATOM	18967	CG	ASP	K	94	58.118	146.879	152.274	1.00147.26
ATOM	18968	OD1	ASP	K	94	58.202	145.660	152.535	1.00147.37
ATOM	18969	OD2	ASP	K	94	58.021	147.321	151.110	1.00147.06
ATOM	18970	N	LYS	K	95	58.861	149.460	155.542	1.00148.37

ATOM	18971	CA	LYS	K	95	58.945	150.543	156.519	1.00148.81
ATOM	18972	C	LYS	K	95	58.705	151.933	155.917	1.00149.12
ATOM	18973	O	LYS	K	95	59.652	152.694	155.716	1.00149.29
ATOM	18974	CB	LYS	K	95	60.317	150.536	157.208	1.00149.07
ATOM	18975	CG	LYS	K	95	60.880	149.155	157.519	1.00149.43
ATOM	18976	CD	LYS	K	95	61.529	148.539	156.286	1.00149.62
ATOM	18977	CE	LYS	K	95	61.974	147.111	156.542	1.00149.54
ATOM	18978	NZ	LYS	K	95	60.814	146.227	156.828	1.00149.52
ATOM	18979	N	SER	K	96	57.443	152.256	155.639	1.00149.31
ATOM	18980	CA	SER	K	96	57.056	153.558	155.082	1.00149.75
ATOM	18981	C	SER	K	96	55.603	153.531	154.621	1.00150.51
ATOM	18982	O	SER	K	96	54.861	154.497	154.807	1.00150.66
ATOM	18983	CB	SER	K	96	57.948	153.945	153.903	1.00149.09
ATOM	18984	OG	SER	K	96	57.624	155.248	153.452	1.00147.78
ATOM	18985	N	LYS	K	97	55.213	152.422	154.003	1.00151.49
ATOM	18986	CA	LYS	K	97	53.845	152.233	153.534	1.00152.48
ATOM	18987	C	LYS	K	97	53.003	151.986	154.782	1.00153.07
ATOM	18988	O	LYS	K	97	51.780	152.129	154.774	1.00153.01
ATOM	18989	CB	LYS	K	97	53.767	151.007	152.620	1.00152.06
ATOM	18990	CG	LYS	K	97	54.593	151.092	151.352	1.00151.52
ATOM	18991	CD	LYS	K	97	53.997	152.086	150.384	1.00151.78
ATOM	18992	CE	LYS	K	97	54.493	151.834	148.974	1.00152.50
ATOM	18993	NZ	LYS	K	97	53.684	152.581	147.972	1.00153.22
ATOM	18994	N	LEU	K	98	53.695	151.608	155.852	1.00154.04
ATOM	18995	CA	LEU	K	98	53.096	151.313	157.146	1.00155.45
ATOM	18996	C	LEU	K	98	52.076	152.361	157.583	1.00156.98
ATOM	18997	O	LEU	K	98	51.085	152.035	158.238	1.00157.49
ATOM	18998	CB	LEU	K	98	54.215	151.173	158.190	1.00154.85
ATOM	18999	CG	LEU	K	98	53.945	150.972	159.686	1.00154.61
ATOM	19000	CD1	LEU	K	98	53.734	152.314	160.365	1.00153.93
ATOM	19001	CD2	LEU	K	98	52.756	150.046	159.879	1.00154.78
ATOM	19002	N	THR	K	99	52.311	153.615	157.204	1.00158.41
ATOM	19003	CA	THR	K	99	51.411	154.706	157.574	1.00159.44
ATOM	19004	C	THR	K	99	50.315	154.955	156.540	1.00159.82
ATOM	19005	O	THR	K	99	49.916	156.097	156.308	1.00159.45
ATOM	19006	CB	THR	K	99	52.193	156.019	157.790	1.00159.72
ATOM	19007	OG1	THR	K	99	52.714	156.483	156.537	1.00158.99
ATOM	19008	CG2	THR	K	99	53.347	155.793	158.764	1.00159.50
ATOM	19009	N	GLU	K	100	49.830	153.881	155.924	1.00160.46
ATOM	19010	CA	GLU	K	100	48.776	153.978	154.919	1.00160.89
ATOM	19011	C	GLU	K	100	47.979	152.676	154.855	1.00160.88
ATOM	19012	O	GLU	K	100	48.355	151.677	155.473	1.00161.05
ATOM	19013	CB	GLU	K	100	49.375	154.258	153.538	1.00161.46
ATOM	19014	CG	GLU	K	100	50.230	155.512	153.436	1.00162.26
ATOM	19015	CD	GLU	K	100	50.777	155.724	152.035	1.00162.21
ATOM	19016	OE1	GLU	K	100	49.967	155.927	151.104	1.00162.64
ATOM	19017	OE2	GLU	K	100	52.015	155.683	151.865	1.00160.82
ATOM	19018	N	ASN	K	101	46.880	152.697	154.104	1.00160.38
ATOM	19019	CA	ASN	K	101	46.030	151.520	153.941	1.00159.76
ATOM	19020	C	ASN	K	101	46.654	150.603	152.894	1.00159.25
ATOM	19021	O	ASN	K	101	46.195	150.543	151.752	1.00159.31
ATOM	19022	CB	ASN	K	101	44.627	151.937	153.493	1.00159.60
ATOM	19023	CG	ASN	K	101	43.974	152.908	154.453	1.00159.90
ATOM	19024	OD1	ASN	K	101	44.502	153.989	154.714	1.00159.96
ATOM	19025	ND2	ASN	K	101	42.816	152.530	154.982	1.00160.67
ATOM	19026	N	THR	K	102	47.698	149.886	153.299	1.00158.40
ATOM	19027	CA	THR	K	102	48.425	148.983	152.412	1.00157.18
ATOM	19028	C	THR	K	102	47.786	147.606	152.185	1.00156.70
ATOM	19029	O	THR	K	102	46.732	147.289	152.741	1.00156.86
ATOM	19030	CB	THR	K	102	49.873	148.785	152.922	1.00156.54
ATOM	19031	OG1	THR	K	102	49.852	148.425	154.310	1.00155.51
ATOM	19032	CG2	THR	K	102	50.673	150.062	152.749	1.00156.05

ATOM	19033	N	LEU	K	103	48.441	146.805	151.347	1.00155.32
ATOM	19034	CA	LEU	K	103	47.998	145.453	151.004	1.00153.76
ATOM	19035	C	LEU	K	103	49.204	144.688	150.461	1.00152.96
ATOM	19036	O	LEU	K	103	49.494	144.757	149.266	1.00152.85
ATOM	19037	CB	LEU	K	103	46.903	145.504	149.931	1.00152.99
ATOM	19038	CG	LEU	K	103	46.387	144.172	149.372	1.00151.75
ATOM	19039	CD1	LEU	K	103	45.631	143.404	150.448	1.00150.58
ATOM	19040	CD2	LEU	K	103	45.481	144.442	148.188	1.00150.33
ATOM	19041	N	GLN	K	104	49.905	143.970	151.337	1.00151.81
ATOM	19042	CA	GLN	K	104	51.094	143.210	150.937	1.00149.69
ATOM	19043	C	GLN	K	104	50.792	141.716	150.797	1.00147.71
ATOM	19044	O	GLN	K	104	50.299	141.074	151.730	1.00147.39
ATOM	19045	CB	GLN	K	104	52.223	143.436	151.955	1.00150.00
ATOM	19046	CG	GLN	K	104	53.630	143.393	151.360	1.00149.34
ATOM	19047	CD	GLN	K	104	54.687	143.947	152.306	1.00148.95
ATOM	19048	OE1	GLN	K	104	54.589	145.086	152.767	1.00148.11
ATOM	19049	NE2	GLN	K	104	55.706	143.145	152.593	1.00148.50
ATOM	19050	N	LEU	K	105	51.101	141.170	149.623	1.00144.91
ATOM	19051	CA	LEU	K	105	50.843	139.765	149.332	1.00142.04
ATOM	19052	C	LEU	K	105	52.019	138.842	149.610	1.00140.77
ATOM	19053	O	LEU	K	105	53.149	139.288	149.807	1.00140.56
ATOM	19054	CB	LEU	K	105	50.427	139.610	147.869	1.00140.09
ATOM	19055	CG	LEU	K	105	49.331	140.559	147.384	1.00138.38
ATOM	19056	CD1	LEU	K	105	49.022	140.259	145.930	1.00137.57
ATOM	19057	CD2	LEU	K	105	48.087	140.408	148.247	1.00137.05
ATOM	19058	N	ALA	K	106	51.728	137.545	149.616	1.00139.38
ATOM	19059	CA	ALA	K	106	52.720	136.503	149.847	1.00138.23
ATOM	19060	C	ALA	K	106	52.372	135.332	148.931	1.00137.41
ATOM	19061	O	ALA	K	106	51.873	134.300	149.389	1.00137.99
ATOM	19062	CB	ALA	K	106	52.687	136.058	151.305	1.00137.36
ATOM	19063	N	ILE	K	107	52.627	135.505	147.636	1.00135.80
ATOM	19064	CA	ILE	K	107	52.330	134.476	146.643	1.00133.70
ATOM	19065	C	ILE	K	107	52.939	133.129	147.013	1.00132.60
ATOM	19066	O	ILE	K	107	54.153	133.006	147.206	1.00132.47
ATOM	19067	CB	ILE	K	107	52.831	134.881	145.232	1.00133.18
ATOM	19068	CG1	ILE	K	107	52.099	136.136	144.749	1.00133.11
ATOM	19069	CG2	ILE	K	107	52.579	133.751	144.246	1.00132.07
ATOM	19070	CD1	ILE	K	107	52.401	137.389	145.553	1.00133.83
ATOM	19071	N	ILE	K	108	52.077	132.121	147.105	1.00130.88
ATOM	19072	CA	ILE	K	108	52.492	130.771	147.456	1.00128.78
ATOM	19073	C	ILE	K	108	52.403	129.863	146.233	1.00126.80
ATOM	19074	O	ILE	K	108	51.716	130.177	145.264	1.00125.84
ATOM	19075	CB	ILE	K	108	51.595	130.203	148.572	1.00129.52
ATOM	19076	CG1	ILE	K	108	51.430	131.254	149.678	1.00129.82
ATOM	19077	CG2	ILE	K	108	52.206	128.923	149.135	1.00129.04
ATOM	19078	CD1	ILE	K	108	50.470	130.856	150.785	1.00131.62
ATOM	19079	N	SER	K	109	53.105	128.737	146.281	1.00124.97
ATOM	19080	CA	SER	K	109	53.107	127.787	145.176	1.00122.88
ATOM	19081	C	SER	K	109	52.726	126.386	145.652	1.00120.76
ATOM	19082	O	SER	K	109	52.998	126.011	146.793	1.00119.74
ATOM	19083	CB	SER	K	109	54.489	127.772	144.518	1.00124.04
ATOM	19084	OG	SER	K	109	55.514	127.783	145.501	1.00125.39
ATOM	19085	N	ARG	K	110	52.093	125.616	144.774	1.00118.87
ATOM	19086	CA	ARG	K	110	51.665	124.261	145.112	1.00117.44
ATOM	19087	C	ARG	K	110	52.127	123.262	144.048	1.00117.05
ATOM	19088	O	ARG	K	110	51.671	123.298	142.897	1.00116.54
ATOM	19089	CB	ARG	K	110	50.139	124.210	145.238	1.00117.03
ATOM	19090	CG	ARG	K	110	49.608	122.986	145.963	1.00114.63
ATOM	19091	CD	ARG	K	110	48.101	122.848	145.788	1.00113.53
ATOM	19092	NE	ARG	K	110	47.537	121.843	146.686	1.00113.05
ATOM	19093	CZ	ARG	K	110	46.302	121.358	146.594	1.00112.68
ATOM	19094	NH1	ARG	K	110	45.488	121.779	145.634	1.00112.93

ATOM	19095	NH2	ARG	K	110	45.875	120.456	147.469	1.00112.29
ATOM	19096	N	ILE	K	111	53.031	122.369	144.445	1.00115.41
ATOM	19097	CA	ILE	K	111	53.571	121.360	143.540	1.00113.05
ATOM	19098	C	ILE	K	111	53.177	119.953	143.965	1.00111.26
ATOM	19099	O	ILE	K	111	52.686	119.735	145.072	1.00110.38
ATOM	19100	CB	ILE	K	111	55.126	121.434	143.469	1.00113.93
ATOM	19101	CG1	ILE	K	111	55.729	121.236	144.865	1.00113.33
ATOM	19102	CG2	ILE	K	111	55.563	122.776	142.891	1.00113.86
ATOM	19103	CD1	ILE	K	111	57.249	121.314	144.906	1.00110.85
ATOM	19104	N	LYS	K	112	53.407	119.001	143.071	1.00110.15
ATOM	19105	CA	LYS	K	112	53.091	117.604	143.332	1.00109.48
ATOM	19106	C	LYS	K	112	54.300	116.884	143.928	1.00108.36
ATOM	19107	O	LYS	K	112	55.399	116.956	143.381	1.00107.83
ATOM	19108	CB	LYS	K	112	52.699	116.907	142.028	1.00109.77
ATOM	19109	CG	LYS	K	112	51.482	117.487	141.321	1.00110.31
ATOM	19110	CD	LYS	K	112	50.189	116.977	141.928	1.00109.16
ATOM	19111	CE	LYS	K	112	49.006	117.313	141.039	1.00108.44
ATOM	19112	NZ	LYS	K	112	47.747	116.739	141.583	1.00108.86
ATOM	19113	N	LEU	K	113	54.095	116.196	145.048	1.00107.02
ATOM	19114	CA	LEU	K	113	55.169	115.442	145.691	1.00105.54
ATOM	19115	C	LEU	K	113	54.755	113.980	145.779	1.00106.23
ATOM	19116	O	LEU	K	113	54.248	113.524	146.806	1.00106.02
ATOM	19117	CB	LEU	K	113	55.462	115.978	147.096	1.00102.21
ATOM	19118	CG	LEU	K	113	56.481	115.197	147.936	1.00 97.44
ATOM	19119	CD1	LEU	K	113	57.818	115.152	147.234	1.00 95.92
ATOM	19120	CD2	LEU	K	113	56.629	115.855	149.288	1.00 97.45
ATOM	19121	N	TYR	K	114	54.979	113.249	144.694	1.00107.19
ATOM	19122	CA	TYR	K	114	54.622	111.841	144.639	1.00107.71
ATOM	19123	C	TYR	K	114	55.533	110.909	145.422	1.00107.83
ATOM	19124	O	TYR	K	114	56.688	110.696	145.048	1.00106.58
ATOM	19125	CB	TYR	K	114	54.578	111.359	143.191	1.00107.90
ATOM	19126	CG	TYR	K	114	53.442	111.916	142.375	1.00109.52
ATOM	19127	CD1	TYR	K	114	52.575	112.874	142.900	1.00110.55
ATOM	19128	CD2	TYR	K	114	53.237	111.487	141.067	1.00110.76
ATOM	19129	CE1	TYR	K	114	51.537	113.390	142.139	1.00111.21
ATOM	19130	CE2	TYR	K	114	52.204	111.994	140.300	1.00111.25
ATOM	19131	CZ	TYR	K	114	51.360	112.944	140.840	1.00111.83
ATOM	19132	OH	TYR	K	114	50.349	113.452	140.064	1.00115.77
ATOM	19133	N	TYR	K	115	55.011	110.366	146.517	1.00108.45
ATOM	19134	CA	TYR	K	115	55.758	109.403	147.303	1.00109.44
ATOM	19135	C	TYR	K	115	55.604	108.132	146.474	1.00110.84
ATOM	19136	O	TYR	K	115	54.622	107.397	146.619	1.00109.90
ATOM	19137	CB	TYR	K	115	55.127	109.205	148.680	1.00109.16
ATOM	19138	CG	TYR	K	115	55.627	107.969	149.401	1.00110.28
ATOM	19139	CD1	TYR	K	115	56.943	107.880	149.855	1.00109.58
ATOM	19140	CD2	TYR	K	115	54.783	106.877	149.617	1.00111.15
ATOM	19141	CE1	TYR	K	115	57.405	106.733	150.511	1.00109.62
ATOM	19142	CE2	TYR	K	115	55.236	105.727	150.268	1.00110.07
ATOM	19143	CZ	TYR	K	115	56.544	105.661	150.714	1.00109.32
ATOM	19144	OH	TYR	K	115	56.981	104.530	151.369	1.00107.64
ATOM	19145	N	ARG	K	116	56.563	107.900	145.582	1.00112.42
ATOM	19146	CA	ARG	K	116	56.536	106.738	144.703	1.00113.61
ATOM	19147	C	ARG	K	116	57.344	105.567	145.249	1.00115.69
ATOM	19148	O	ARG	K	116	58.540	105.691	145.515	1.00116.20
ATOM	19149	CB	ARG	K	116	57.058	107.119	143.323	1.00110.96
ATOM	19150	CG	ARG	K	116	56.930	106.020	142.299	1.00109.78
ATOM	19151	CD	ARG	K	116	57.376	106.521	140.945	1.00110.74
ATOM	19152	NE	ARG	K	116	56.522	107.599	140.455	1.00108.54
ATOM	19153	CZ	ARG	K	116	56.790	108.333	139.381	1.00107.43
ATOM	19154	NH1	ARG	K	116	57.896	108.112	138.682	1.00106.94
ATOM	19155	NH2	ARG	K	116	55.947	109.281	139.000	1.00107.77
ATOM	19156	N	PRO	K	117	56.690	104.407	145.418	1.00117.23

ATOM	19157	CA	PRO K 117	57.310	103.182	145.931	1.00118.12
ATOM	19158	C	PRO K 117	58.453	102.661	145.061	1.00118.52
ATOM	19159	O	PRO K 117	58.367	102.676	143.832	1.00119.19
ATOM	19160	CB	PRO K 117	56.140	102.203	145.977	1.00118.87
ATOM	19161	CG	PRO K 117	54.966	103.094	146.212	1.00118.21
ATOM	19162	CD	PRO K 117	55.239	104.219	145.254	1.00117.55
ATOM	19163	N	ALA K 118	59.519	102.200	145.707	1.00118.67
ATOM	19164	CA	ALA K 118	60.668	101.654	144.997	1.00118.95
ATOM	19165	C	ALA K 118	60.469	100.148	144.875	1.00118.86
ATOM	19166	O	ALA K 118	61.154	99.360	145.528	1.00118.54
ATOM	19167	CB	ALA K 118	61.950	101.958	145.758	1.00119.22
ATOM	19168	N	LYS K 119	59.516	99.761	144.036	1.00118.70
ATOM	19169	CA	LYS K 119	59.194	98.356	143.826	1.00117.94
ATOM	19170	C	LYS K 119	58.010	98.316	142.861	1.00116.51
ATOM	19171	O	LYS K 119	57.040	97.589	143.074	1.00116.77
ATOM	19172	CB	LYS K 119	58.815	97.708	145.168	1.00119.02
ATOM	19173	CG	LYS K 119	58.809	96.185	145.182	1.00119.34
ATOM	19174	CD	LYS K 119	60.216	95.618	145.085	1.00118.90
ATOM	19175	CE	LYS K 119	60.192	94.098	145.075	1.00118.98
ATOM	19176	NZ	LYS K 119	61.558	93.516	144.960	1.00120.86
ATOM	19177	N	LEU K 120	58.092	99.109	141.799	1.00114.89
ATOM	19178	CA	LEU K 120	57.014	99.163	140.822	1.00114.56
ATOM	19179	C	LEU K 120	57.383	98.509	139.485	1.00114.37
ATOM	19180	O	LEU K 120	58.467	98.741	138.945	1.00114.11
ATOM	19181	CB	LEU K 120	56.588	100.623	140.606	1.00113.39
ATOM	19182	CG	LEU K 120	56.215	101.429	141.859	1.00111.76
ATOM	19183	CD1	LEU K 120	55.739	102.811	141.444	1.00110.90
ATOM	19184	CD2	LEU K 120	55.129	100.713	142.651	1.00110.02
ATOM	19185	N	ALA K 121	56.469	97.693	138.962	1.00114.44
ATOM	19186	CA	ALA K 121	56.666	96.988	137.692	1.00114.50
ATOM	19187	C	ALA K 121	56.628	97.932	136.496	1.00114.79
ATOM	19188	O	ALA K 121	57.661	98.265	135.913	1.00113.30
ATOM	19189	CB	ALA K 121	55.598	95.914	137.529	1.00113.93
ATOM	19190	N	LEU K 122	55.419	98.347	136.138	1.00116.20
ATOM	19191	CA	LEU K 122	55.192	99.253	135.022	1.00117.90
ATOM	19192	C	LEU K 122	55.879	100.597	135.267	1.00119.93
ATOM	19193	O	LEU K 122	55.380	101.419	136.033	1.00119.84
ATOM	19194	CB	LEU K 122	53.689	99.467	134.849	1.00116.44
ATOM	19195	CG	LEU K 122	53.227	100.265	133.636	1.00116.60
ATOM	19196	CD1	LEU K 122	53.524	99.486	132.371	1.00116.82
ATOM	19197	CD2	LEU K 122	51.745	100.532	133.746	1.00115.29
ATOM	19198	N	PRO K 123	57.030	100.843	134.610	1.00122.63
ATOM	19199	CA	PRO K 123	57.769	102.103	134.778	1.00123.90
ATOM	19200	C	PRO K 123	56.960	103.338	134.364	1.00124.64
ATOM	19201	O	PRO K 123	55.968	103.228	133.639	1.00123.44
ATOM	19202	CB	PRO K 123	59.009	101.893	133.905	1.00122.99
ATOM	19203	CG	PRO K 123	58.488	101.039	132.797	1.00122.89
ATOM	19204	CD	PRO K 123	57.644	100.022	133.550	1.00123.80
ATOM	19205	N	PRO K 124	57.377	104.532	134.822	1.00125.69
ATOM	19206	CA	PRO K 124	56.677	105.776	134.489	1.00126.82
ATOM	19207	C	PRO K 124	56.680	106.055	132.988	1.00128.23
ATOM	19208	O	PRO K 124	56.118	107.050	132.527	1.00128.57
ATOM	19209	CB	PRO K 124	57.455	106.826	135.277	1.00126.36
ATOM	19210	CG	PRO K 124	58.848	106.273	135.273	1.00125.67
ATOM	19211	CD	PRO K 124	58.608	104.814	135.585	1.00125.65
ATOM	19212	N	ASP K 125	57.314	105.159	132.237	1.00129.74
ATOM	19213	CA	ASP K 125	57.419	105.275	130.784	1.00130.64
ATOM	19214	C	ASP K 125	56.186	104.716	130.065	1.00130.65
ATOM	19215	O	ASP K 125	55.712	105.295	129.088	1.00130.08
ATOM	19216	CB	ASP K 125	58.676	104.541	130.295	1.00131.63
ATOM	19217	CG	ASP K 125	59.970	105.154	130.830	1.00132.96
ATOM	19218	OD1	ASP K 125	60.057	105.409	132.054	1.00133.59

ATOM	19219	OD2	ASP	K	125	60.907	105.369	130.028	1.00133.42
ATOM	19220	N	GLN	K	126	55.672	103.593	130.560	1.00131.19
ATOM	19221	CA	GLN	K	126	54.504	102.946	129.964	1.00131.26
ATOM	19222	C	GLN	K	126	53.281	103.008	130.878	1.00131.00
ATOM	19223	O	GLN	K	126	52.387	102.159	130.809	1.00129.60
ATOM	19224	CB	GLN	K	126	54.839	101.490	129.632	1.00131.77
ATOM	19225	CG	GLN	K	126	55.945	101.337	128.595	1.00133.18
ATOM	19226	CD	GLN	K	126	57.057	100.408	129.048	1.00134.25
ATOM	19227	OE1	GLN	K	126	57.987	100.120	128.291	1.00135.07
ATOM	19228	NE2	GLN	K	126	56.970	99.938	130.287	1.00133.96
ATOM	19229	N	ALA	K	127	53.250	104.029	131.727	1.00131.93
ATOM	19230	CA	ALA	K	127	52.151	104.222	132.664	1.00132.60
ATOM	19231	C	ALA	K	127	51.147	105.233	132.125	1.00132.50
ATOM	19232	O	ALA	K	127	49.939	105.040	132.246	1.00132.16
ATOM	19233	CB	ALA	K	127	52.693	104.689	134.014	1.00133.59
ATOM	19234	N	ALA	K	128	51.655	106.311	131.534	1.00132.99
ATOM	19235	CA	ALA	K	128	50.805	107.358	130.975	1.00133.70
ATOM	19236	C	ALA	K	128	50.448	107.051	129.521	1.00134.66
ATOM	19237	O	ALA	K	128	50.654	107.880	128.632	1.00135.21
ATOM	19238	CB	ALA	K	128	51.514	108.707	131.067	1.00133.13
ATOM	19239	N	GLU	K	129	49.905	105.858	129.289	1.00135.78
ATOM	19240	CA	GLU	K	129	49.521	105.419	127.947	1.00136.30
ATOM	19241	C	GLU	K	129	48.510	104.274	127.999	1.00135.55
ATOM	19242	O	GLU	K	129	48.196	103.659	126.979	1.00135.57
ATOM	19243	CB	GLU	K	129	50.769	104.983	127.167	1.00138.33
ATOM	19244	CG	GLU	K	129	51.693	104.037	127.936	1.00141.44
ATOM	19245	CD	GLU	K	129	53.067	103.894	127.291	1.00142.66
ATOM	19246	OE1	GLU	K	129	53.751	104.924	127.103	1.00143.62
ATOM	19247	OE2	GLU	K	129	53.466	102.751	126.980	1.00144.32
ATOM	19248	N	LYS	K	130	47.996	104.005	129.194	1.00134.73
ATOM	19249	CA	LYS	K	130	47.029	102.935	129.401	1.00133.94
ATOM	19250	C	LYS	K	130	45.656	103.487	129.774	1.00133.52
ATOM	19251	O	LYS	K	130	44.714	102.727	129.989	1.00133.08
ATOM	19252	CB	LYS	K	130	47.519	102.013	130.517	1.00134.50
ATOM	19253	CG	LYS	K	130	48.933	101.480	130.323	1.00134.26
ATOM	19254	CD	LYS	K	130	49.364	100.653	131.525	1.00134.60
ATOM	19255	CE	LYS	K	130	48.401	99.494	131.781	1.00134.77
ATOM	19256	NZ	LYS	K	130	48.697	98.765	133.047	1.00133.19
ATOM	19257	N	LEU	K	131	45.559	104.811	129.853	1.00133.25
ATOM	19258	CA	LEU	K	131	44.318	105.495	130.209	1.00133.58
ATOM	19259	C	LEU	K	131	43.101	104.881	129.517	1.00134.54
ATOM	19260	O	LEU	K	131	42.907	105.065	128.317	1.00134.89
ATOM	19261	CB	LEU	K	131	44.423	106.979	129.839	1.00132.32
ATOM	19262	CG	LEU	K	131	43.316	107.924	130.317	1.00131.60
ATOM	19263	CD1	LEU	K	131	43.361	108.042	131.832	1.00131.19
ATOM	19264	CD2	LEU	K	131	43.498	109.291	129.684	1.00131.24
ATOM	19265	N	ARG	K	132	42.283	104.157	130.278	1.00135.74
ATOM	19266	CA	ARG	K	132	41.085	103.519	129.733	1.00137.40
ATOM	19267	C	ARG	K	132	39.847	104.403	129.907	1.00138.61
ATOM	19268	O	ARG	K	132	39.735	105.135	130.894	1.00138.68
ATOM	19269	CB	ARG	K	132	40.855	102.166	130.410	1.00138.12
ATOM	19270	CG	ARG	K	132	42.057	101.228	130.356	1.00139.13
ATOM	19271	CD	ARG	K	132	41.645	99.782	130.613	1.00140.34
ATOM	19272	NE	ARG	K	132	41.058	99.599	131.940	1.00140.60
ATOM	19273	CZ	ARG	K	132	40.481	98.476	132.357	1.00140.21
ATOM	19274	NH1	ARG	K	132	40.406	97.423	131.552	1.00139.72
ATOM	19275	NH2	ARG	K	132	39.980	98.406	133.583	1.00140.03
ATOM	19276	N	PHE	K	133	38.915	104.320	128.957	1.00139.86
ATOM	19277	CA	PHE	K	133	37.701	105.141	128.992	1.00140.72
ATOM	19278	C	PHE	K	133	36.372	104.396	129.164	1.00139.86
ATOM	19279	O	PHE	K	133	36.112	103.390	128.505	1.00138.69
ATOM	19280	CB	PHE	K	133	37.628	106.006	127.725	1.00143.01

ATOM	19281	CG	PHE	K	133	38.752	107.005	127.601	1.00145.06
ATOM	19282	CD1	PHE	K	133	40.073	106.584	127.468	1.00145.63
ATOM	19283	CD2	PHE	K	133	38.490	108.371	127.640	1.00145.74
ATOM	19284	CE1	PHE	K	133	41.114	107.509	127.378	1.00145.94
ATOM	19285	CE2	PHE	K	133	39.525	109.302	127.550	1.00146.06
ATOM	19286	CZ	PHE	K	133	40.839	108.868	127.420	1.00145.85
ATOM	19287	N	ARG	K	134	35.535	104.919	130.058	1.00139.69
ATOM	19288	CA	ARG	K	134	34.220	104.347	130.339	1.00139.86
ATOM	19289	C	ARG	K	134	33.195	105.472	130.255	1.00140.05
ATOM	19290	O	ARG	K	134	32.273	105.550	131.071	1.00140.11
ATOM	19291	CB	ARG	K	134	34.176	103.739	131.748	1.00139.48
ATOM	19292	CG	ARG	K	134	32.893	102.960	132.058	1.00137.47
ATOM	19293	CD	ARG	K	134	32.432	103.153	133.500	1.00135.13
ATOM	19294	NE	ARG	K	134	33.459	102.801	134.477	1.00133.04
ATOM	19295	CZ	ARG	K	134	33.313	102.937	135.791	1.00131.70
ATOM	19296	NH1	ARG	K	134	32.181	103.415	136.290	1.00130.37
ATOM	19297	NH2	ARG	K	134	34.304	102.608	136.607	1.00130.57
ATOM	19298	N	ARG	K	135	33.369	106.349	129.270	1.00140.05
ATOM	19299	CA	ARG	K	135	32.467	107.480	129.080	1.00140.05
ATOM	19300	C	ARG	K	135	31.009	107.045	129.235	1.00140.07
ATOM	19301	O	ARG	K	135	30.602	106.001	128.716	1.00140.65
ATOM	19302	CB	ARG	K	135	32.682	108.101	127.695	1.00139.55
ATOM	19303	CG	ARG	K	135	31.925	107.419	126.560	1.00138.51
ATOM	19304	CD	ARG	K	135	30.582	108.097	126.318	1.00136.52
ATOM	19305	NE	ARG	K	135	30.752	109.436	125.760	1.00134.64
ATOM	19306	CZ	ARG	K	135	29.765	110.310	125.596	1.00133.90
ATOM	19307	NH1	ARG	K	135	28.532	109.996	125.962	1.00133.77
ATOM	19308	NH2	ARG	K	135	30.013	111.505	125.076	1.00133.90
ATOM	19309	N	SER	K	136	30.233	107.847	129.957	1.00138.96
ATOM	19310	CA	SER	K	136	28.823	107.555	130.183	1.00137.18
ATOM	19311	C	SER	K	136	27.986	108.495	129.328	1.00136.59
ATOM	19312	O	SER	K	136	28.466	109.016	128.324	1.00135.98
ATOM	19313	CB	SER	K	136	28.479	107.747	131.662	1.00136.82
ATOM	19314	OG	SER	K	136	29.309	106.944	132.485	1.00134.29
ATOM	19315	N	ALA	K	137	26.736	108.705	129.725	1.00136.41
ATOM	19316	CA	ALA	K	137	25.856	109.598	128.985	1.00136.74
ATOM	19317	C	ALA	K	137	26.572	110.942	128.822	1.00136.67
ATOM	19318	O	ALA	K	137	27.196	111.199	127.790	1.00136.88
ATOM	19319	CB	ALA	K	137	24.544	109.777	129.738	1.00136.88
ATOM	19320	N	ASN	K	138	26.486	111.794	129.839	1.00136.00
ATOM	19321	CA	ASN	K	138	27.150	113.090	129.789	1.00135.10
ATOM	19322	C	ASN	K	138	28.342	113.093	130.744	1.00135.48
ATOM	19323	O	ASN	K	138	28.612	114.083	131.424	1.00135.43
ATOM	19324	CB	ASN	K	138	26.168	114.219	130.145	1.00133.74
ATOM	19325	CG	ASN	K	138	25.595	114.090	131.547	1.00132.49
ATOM	19326	OD1	ASN	K	138	26.328	114.089	132.534	1.00132.30
ATOM	19327	ND2	ASN	K	138	24.275	113.990	131.638	1.00131.15
ATOM	19328	N	SER	K	139	29.055	111.972	130.784	1.00135.89
ATOM	19329	CA	SER	K	139	30.217	111.828	131.653	1.00136.80
ATOM	19330	C	SER	K	139	31.360	111.123	130.931	1.00137.20
ATOM	19331	O	SER	K	139	31.162	110.502	129.886	1.00137.45
ATOM	19332	CB	SER	K	139	29.848	111.027	132.907	1.00137.35
ATOM	19333	OG	SER	K	139	28.849	111.683	133.669	1.00138.54
ATOM	19334	N	LEU	K	140	32.557	111.227	131.498	1.00137.41
ATOM	19335	CA	LEU	K	140	33.736	110.586	130.929	1.00137.52
ATOM	19336	C	LEU	K	140	34.527	109.894	132.032	1.00137.58
ATOM	19337	O	LEU	K	140	35.590	110.365	132.445	1.00137.47
ATOM	19338	CB	LEU	K	140	34.623	111.611	130.220	1.00137.07
ATOM	19339	CG	LEU	K	140	34.676	111.472	128.698	1.00136.12
ATOM	19340	CD1	LEU	K	140	35.617	112.516	128.129	1.00136.77
ATOM	19341	CD2	LEU	K	140	35.142	110.076	128.322	1.00133.93
ATOM	19342	N	THR	K	141	33.993	108.773	132.502	1.00137.38

ATOM	19343	CA	THR	K	141	34.625	107.999	133.560	1.00136.58
ATOM	19344	C	THR	K	141	35.978	107.452	133.098	1.00136.02
ATOM	19345	O	THR	K	141	36.066	106.358	132.535	1.00136.07
ATOM	19346	CB	THR	K	141	33.710	106.834	134.005	1.00136.57
ATOM	19347	OG1	THR	K	141	32.432	107.352	134.398	1.00135.84
ATOM	19348	CG2	THR	K	141	34.323	106.095	135.182	1.00136.58
ATOM	19349	N	LEU	K	142	37.025	108.237	133.340	1.00135.03
ATOM	19350	CA	LEU	K	142	38.391	107.874	132.971	1.00133.58
ATOM	19351	C	LEU	K	142	38.989	107.015	134.088	1.00132.56
ATOM	19352	O	LEU	K	142	38.791	107.304	135.268	1.00131.84
ATOM	19353	CB	LEU	K	142	39.235	109.140	132.793	1.00133.06
ATOM	19354	CG	LEU	K	142	38.574	110.328	132.086	1.00132.18
ATOM	19355	CD1	LEU	K	142	39.500	111.533	132.133	1.00133.18
ATOM	19356	CD2	LEU	K	142	38.245	109.957	130.655	1.00131.98
ATOM	19357	N	ILE	K	143	39.722	105.968	133.722	1.00131.51
ATOM	19358	CA	ILE	K	143	40.319	105.095	134.727	1.00129.98
ATOM	19359	C	ILE	K	143	41.797	104.773	134.489	1.00128.35
ATOM	19360	O	ILE	K	143	42.213	104.481	133.368	1.00127.68
ATOM	19361	CB	ILE	K	143	39.514	103.774	134.851	1.00130.65
ATOM	19362	CG1	ILE	K	143	40.135	102.884	135.935	1.00131.67
ATOM	19363	CG2	ILE	K	143	39.454	103.069	133.501	1.00129.24
ATOM	19364	CD1	ILE	K	143	39.298	101.666	136.302	1.00131.95
ATOM	19365	N	ASN	K	144	42.582	104.835	135.562	1.00126.71
ATOM	19366	CA	ASN	K	144	44.014	104.556	135.504	1.00124.81
ATOM	19367	C	ASN	K	144	44.411	103.447	136.473	1.00123.64
ATOM	19368	O	ASN	K	144	44.141	103.530	137.668	1.00121.69
ATOM	19369	CB	ASN	K	144	44.811	105.830	135.817	1.00124.88
ATOM	19370	CG	ASN	K	144	46.227	105.539	136.280	1.00123.69
ATOM	19371	OD1	ASN	K	144	46.956	104.773	135.652	1.00123.52
ATOM	19372	ND2	ASN	K	144	46.624	106.161	137.384	1.00122.60
ATOM	19373	N	PRO	K	145	45.056	102.387	135.955	1.00123.42
ATOM	19374	CA	PRO	K	145	45.506	101.240	136.749	1.00123.09
ATOM	19375	C	PRO	K	145	46.902	101.440	137.333	1.00122.64
ATOM	19376	O	PRO	K	145	47.148	101.133	138.493	1.00122.10
ATOM	19377	CB	PRO	K	145	45.472	100.104	135.737	1.00123.09
ATOM	19378	CG	PRO	K	145	45.963	100.787	134.494	1.00122.39
ATOM	19379	CD	PRO	K	145	45.204	102.109	134.511	1.00123.24
ATOM	19380	N	THR	K	146	47.811	101.951	136.511	1.00122.56
ATOM	19381	CA	THR	K	146	49.188	102.188	136.927	1.00122.56
ATOM	19382	C	THR	K	146	49.217	102.859	138.295	1.00122.40
ATOM	19383	O	THR	K	146	48.296	103.591	138.653	1.00122.45
ATOM	19384	CB	THR	K	146	49.915	103.106	135.934	1.00122.62
ATOM	19385	OG1	THR	K	146	49.507	104.459	136.156	1.00123.29
ATOM	19386	CG2	THR	K	146	49.568	102.726	134.503	1.00122.79
ATOM	19387	N	PRO	K	147	50.277	102.609	139.079	1.00122.44
ATOM	19388	CA	PRO	K	147	50.445	103.184	140.420	1.00121.97
ATOM	19389	C	PRO	K	147	50.934	104.642	140.463	1.00121.39
ATOM	19390	O	PRO	K	147	51.459	105.089	141.485	1.00120.43
ATOM	19391	CB	PRO	K	147	51.433	102.225	141.075	1.00122.53
ATOM	19392	CG	PRO	K	147	52.295	101.813	139.925	1.00122.99
ATOM	19393	CD	PRO	K	147	51.277	101.552	138.836	1.00122.47
ATOM	19394	N	TYR	K	148	50.759	105.371	139.359	1.00120.82
ATOM	19395	CA	TYR	K	148	51.173	106.778	139.270	1.00119.39
ATOM	19396	C	TYR	K	148	49.965	107.648	138.934	1.00119.34
ATOM	19397	O	TYR	K	148	48.991	107.170	138.353	1.00119.14
ATOM	19398	CB	TYR	K	148	52.226	106.978	138.170	1.00117.01
ATOM	19399	CG	TYR	K	148	53.284	105.901	138.096	1.00116.66
ATOM	19400	CD1	TYR	K	148	52.992	104.641	137.568	1.00116.44
ATOM	19401	CD2	TYR	K	148	54.574	106.133	138.565	1.00116.05
ATOM	19402	CE1	TYR	K	148	53.962	103.638	137.513	1.00115.84
ATOM	19403	CE2	TYR	K	148	55.550	105.139	138.515	1.00115.84
ATOM	19404	CZ	TYR	K	148	55.239	103.894	137.989	1.00115.75

ATOM	19405	OH	TYR K 148	56.201	102.908	137.948	1.00113.73
ATOM	19406	N	TYR K 149	50.023	108.924	139.300	1.00119.25
ATOM	19407	CA	TYR K 149	48.924	109.828	138.989	1.00119.44
ATOM	19408	C	TYR K 149	49.120	110.427	137.598	1.00120.72
ATOM	19409	O	TYR K 149	49.771	111.463	137.448	1.00121.23
ATOM	19410	CB	TYR K 149	48.844	110.969	139.999	1.00116.76
ATOM	19411	CG	TYR K 149	48.303	110.608	141.357	1.00114.37
ATOM	19412	CD1	TYR K 149	49.150	110.184	142.372	1.00114.14
ATOM	19413	CD2	TYR K 149	46.945	110.744	141.644	1.00113.79
ATOM	19414	CE1	TYR K 149	48.662	109.911	143.650	1.00113.86
ATOM	19415	CE2	TYR K 149	46.444	110.473	142.916	1.00112.43
ATOM	19416	CZ	TYR K 149	47.309	110.058	143.917	1.00112.48
ATOM	19417	OH	TYR K 149	46.834	109.799	145.187	1.00109.41
ATOM	19418	N	LEU K 150	48.559	109.776	136.584	1.00121.85
ATOM	19419	CA	LEU K 150	48.676	110.257	135.212	1.00123.17
ATOM	19420	C	LEU K 150	47.954	111.589	135.059	1.00124.12
ATOM	19421	O	LEU K 150	46.778	111.621	134.691	1.00124.26
ATOM	19422	CB	LEU K 150	48.055	109.255	134.238	1.00124.14
ATOM	19423	CG	LEU K 150	48.446	107.786	134.374	1.00125.80
ATOM	19424	CD1	LEU K 150	47.672	106.965	133.347	1.00125.70
ATOM	19425	CD2	LEU K 150	49.949	107.633	134.186	1.00126.11
ATOM	19426	N	THR K 151	48.651	112.685	135.339	1.00124.93
ATOM	19427	CA	THR K 151	48.048	114.005	135.216	1.00125.13
ATOM	19428	C	THR K 151	47.510	114.180	133.798	1.00126.78
ATOM	19429	O	THR K 151	48.272	114.417	132.861	1.00127.40
ATOM	19430	CB	THR K 151	49.073	115.112	135.506	1.00123.73
ATOM	19431	OG1	THR K 151	49.623	114.920	136.815	1.00122.82
ATOM	19432	CG2	THR K 151	48.410	116.478	135.437	1.00122.02
ATOM	19433	N	VAL K 152	46.193	114.050	133.649	1.00128.10
ATOM	19434	CA	VAL K 152	45.539	114.186	132.349	1.00128.87
ATOM	19435	C	VAL K 152	45.430	115.648	131.931	1.00129.70
ATOM	19436	O	VAL K 152	44.607	116.393	132.462	1.00128.81
ATOM	19437	CB	VAL K 152	44.120	113.575	132.377	1.00128.85
ATOM	19438	CG1	VAL K 152	43.460	113.727	131.014	1.00129.73
ATOM	19439	CG2	VAL K 152	44.195	112.111	132.774	1.00127.61
ATOM	19440	N	THR K 153	46.260	116.050	130.972	1.00131.46
ATOM	19441	CA	THR K 153	46.262	117.427	130.488	1.00133.94
ATOM	19442	C	THR K 153	45.607	117.578	129.119	1.00134.99
ATOM	19443	O	THR K 153	45.736	116.708	128.254	1.00134.47
ATOM	19444	CB	THR K 153	47.698	117.998	130.399	1.00134.70
ATOM	19445	OG1	THR K 153	47.646	119.339	129.895	1.00135.42
ATOM	19446	CG2	THR K 153	48.563	117.147	129.478	1.00134.13
ATOM	19447	N	GLU K 154	44.903	118.694	128.940	1.00136.39
ATOM	19448	CA	GLU K 154	44.221	118.998	127.689	1.00137.63
ATOM	19449	C	GLU K 154	43.267	117.866	127.318	1.00138.81
ATOM	19450	O	GLU K 154	43.293	117.370	126.190	1.00139.09
ATOM	19451	CB	GLU K 154	45.255	119.192	126.581	1.00137.14
ATOM	19452	CG	GLU K 154	46.477	119.976	127.029	1.00137.03
ATOM	19453	CD	GLU K 154	47.569	119.999	125.983	1.00137.20
ATOM	19454	OE1	GLU K 154	47.289	119.621	124.828	1.00137.76
ATOM	19455	OE2	GLU K 154	48.705	120.399	126.315	1.00137.08
ATOM	19456	N	LEU K 155	42.428	117.467	128.272	1.00140.04
ATOM	19457	CA	LEU K 155	41.467	116.384	128.065	1.00141.21
ATOM	19458	C	LEU K 155	40.463	116.721	126.972	1.00141.42
ATOM	19459	O	LEU K 155	39.345	117.154	127.249	1.00141.41
ATOM	19460	CB	LEU K 155	40.721	116.075	129.369	1.00142.10
ATOM	19461	CG	LEU K 155	39.717	114.916	129.337	1.00142.44
ATOM	19462	CD1	LEU K 155	40.426	113.628	128.937	1.00141.82
ATOM	19463	CD2	LEU K 155	39.063	114.762	130.705	1.00141.79
ATOM	19464	N	ASN K 156	40.871	116.512	125.726	1.00142.19
ATOM	19465	CA	ASN K 156	40.020	116.796	124.580	1.00142.66
ATOM	19466	C	ASN K 156	39.419	115.523	124.001	1.00143.03

ATOM	19467	O	ASN K 156	39.716	114.412	124.446	1.00143.37
ATOM	19468	CB	ASN K 156	40.826	117.504	123.485	1.00142.64
ATOM	19469	CG	ASN K 156	41.400	118.827	123.944	1.00142.72
ATOM	19470	OD1	ASN K 156	40.663	119.765	124.248	1.00143.00
ATOM	19471	ND2	ASN K 156	42.725	118.909	123.998	1.00143.13
ATOM	19472	N	ALA K 157	38.566	115.707	123.002	1.00143.08
ATOM	19473	CA	ALA K 157	37.915	114.610	122.304	1.00142.46
ATOM	19474	C	ALA K 157	37.921	115.015	120.839	1.00142.21
ATOM	19475	O	ALA K 157	37.018	114.672	120.076	1.00141.61
ATOM	19476	CB	ALA K 157	36.492	114.437	122.799	1.00142.06
ATOM	19477	N	GLY K 158	38.958	115.762	120.466	1.00142.21
ATOM	19478	CA	GLY K 158	39.093	116.238	119.104	1.00142.26
ATOM	19479	C	GLY K 158	38.050	117.298	118.820	1.00142.20
ATOM	19480	O	GLY K 158	37.943	117.800	117.699	1.00142.30
ATOM	19481	N	THR K 159	37.281	117.641	119.849	1.00141.62
ATOM	19482	CA	THR K 159	36.228	118.638	119.722	1.00140.67
ATOM	19483	C	THR K 159	35.991	119.386	121.031	1.00139.54
ATOM	19484	O	THR K 159	36.470	120.505	121.215	1.00138.54
ATOM	19485	CB	THR K 159	34.896	117.981	119.284	1.00141.44
ATOM	19486	OG1	THR K 159	34.564	116.924	120.195	1.00141.47
ATOM	19487	CG2	THR K 159	35.010	117.415	117.866	1.00139.98
ATOM	19488	N	ARG K 160	35.255	118.750	121.938	1.00139.15
ATOM	19489	CA	ARG K 160	34.910	119.341	123.231	1.00138.68
ATOM	19490	C	ARG K 160	36.015	119.171	124.280	1.00137.89
ATOM	19491	O	ARG K 160	36.304	118.054	124.716	1.00137.77
ATOM	19492	CB	ARG K 160	33.609	118.709	123.751	1.00138.41
ATOM	19493	CG	ARG K 160	32.819	119.538	124.767	1.00137.22
ATOM	19494	CD	ARG K 160	31.983	120.616	124.083	1.00136.75
ATOM	19495	NE	ARG K 160	31.036	121.253	124.998	1.00135.75
ATOM	19496	CZ	ARG K 160	30.119	122.141	124.627	1.00135.05
ATOM	19497	NH1	ARG K 160	30.018	122.504	123.356	1.00135.19
ATOM	19498	NH2	ARG K 160	29.297	122.666	125.525	1.00134.13
ATOM	19499	N	VAL K 161	36.625	120.284	124.680	1.00136.57
ATOM	19500	CA	VAL K 161	37.675	120.254	125.692	1.00135.40
ATOM	19501	C	VAL K 161	37.018	120.167	127.066	1.00134.89
ATOM	19502	O	VAL K 161	35.998	120.812	127.322	1.00134.76
ATOM	19503	CB	VAL K 161	38.560	121.519	125.636	1.00135.26
ATOM	19504	CG1	VAL K 161	37.716	122.757	125.888	1.00136.03
ATOM	19505	CG2	VAL K 161	39.678	121.418	126.664	1.00134.66
ATOM	19506	N	LEU K 162	37.605	119.368	127.948	1.00134.28
ATOM	19507	CA	LEU K 162	37.055	119.190	129.281	1.00133.31
ATOM	19508	C	LEU K 162	38.035	119.614	130.364	1.00133.17
ATOM	19509	O	LEU K 162	38.987	120.353	130.104	1.00132.76
ATOM	19510	CB	LEU K 162	36.666	117.724	129.487	1.00132.15
ATOM	19511	CG	LEU K 162	35.912	117.068	128.328	1.00131.05
ATOM	19512	CD1	LEU K 162	35.514	115.659	128.723	1.00129.63
ATOM	19513	CD2	LEU K 162	34.689	117.895	127.970	1.00129.95
ATOM	19514	N	GLU K 163	37.782	119.135	131.579	1.00133.62
ATOM	19515	CA	GLU K 163	38.608	119.432	132.747	1.00133.08
ATOM	19516	C	GLU K 163	39.750	118.421	132.891	1.00133.20
ATOM	19517	O	GLU K 163	39.582	117.224	132.646	1.00132.88
ATOM	19518	CB	GLU K 163	37.731	119.429	134.013	1.00131.52
ATOM	19519	CG	GLU K 163	38.467	119.551	135.349	1.00128.90
ATOM	19520	CD	GLU K 163	39.134	120.901	135.556	1.00127.83
ATOM	19521	OE1	GLU K 163	38.479	121.939	135.314	1.00126.94
ATOM	19522	OE2	GLU K 163	40.311	120.925	135.978	1.00126.28
ATOM	19523	N	ASN K 164	40.918	118.922	133.275	1.00133.57
ATOM	19524	CA	ASN K 164	42.087	118.081	133.469	1.00132.99
ATOM	19525	C	ASN K 164	41.990	117.522	134.884	1.00133.07
ATOM	19526	O	ASN K 164	42.101	118.266	135.860	1.00132.99
ATOM	19527	CB	ASN K 164	43.371	118.908	133.325	1.00132.89
ATOM	19528	CG	ASN K 164	43.409	119.720	132.036	1.00132.42

ATOM	19529	OD1	ASN	K	164	43.257	119.179	130.940	1.00131.40
ATOM	19530	ND2	ASN	K	164	43.620	121.026	132.166	1.00131.78
ATOM	19531	N	ALA	K	165	41.767	116.217	134.994	1.00133.32
ATOM	19532	CA	ALA	K	165	41.652	115.578	136.302	1.00133.20
ATOM	19533	C	ALA	K	165	42.912	114.789	136.664	1.00132.64
ATOM	19534	O	ALA	K	165	43.744	114.495	135.805	1.00132.60
ATOM	19535	CB	ALA	K	165	40.428	114.660	136.328	1.00133.73
ATOM	19536	N	LEU	K	166	43.042	114.457	137.946	1.00132.09
ATOM	19537	CA	LEU	K	166	44.185	113.697	138.442	1.00131.61
ATOM	19538	C	LEU	K	166	43.802	112.228	138.624	1.00132.22
ATOM	19539	O	LEU	K	166	43.589	111.778	139.750	1.00132.77
ATOM	19540	CB	LEU	K	166	44.656	114.272	139.784	1.00129.92
ATOM	19541	CG	LEU	K	166	45.805	113.541	140.486	1.00128.24
ATOM	19542	CD1	LEU	K	166	47.015	113.552	139.582	1.00128.70
ATOM	19543	CD2	LEU	K	166	46.129	114.198	141.816	1.00126.38
ATOM	19544	N	VAL	K	167	43.710	111.484	137.521	1.00132.78
ATOM	19545	CA	VAL	K	167	43.346	110.070	137.589	1.00132.67
ATOM	19546	C	VAL	K	167	44.337	109.368	138.513	1.00133.23
ATOM	19547	O	VAL	K	167	45.499	109.156	138.160	1.00132.57
ATOM	19548	CB	VAL	K	167	43.374	109.395	136.194	1.00132.58
ATOM	19549	CG1	VAL	K	167	42.619	108.077	136.248	1.00131.62
ATOM	19550	CG2	VAL	K	167	42.758	110.311	135.147	1.00130.92
ATOM	19551	N	PRO	K	168	43.879	108.998	139.717	1.00134.18
ATOM	19552	CA	PRO	K	168	44.684	108.325	140.738	1.00134.81
ATOM	19553	C	PRO	K	168	45.174	106.916	140.404	1.00135.26
ATOM	19554	O	PRO	K	168	44.663	106.260	139.490	1.00134.55
ATOM	19555	CB	PRO	K	168	43.762	108.343	141.955	1.00135.18
ATOM	19556	CG	PRO	K	168	42.412	108.183	141.337	1.00135.30
ATOM	19557	CD	PRO	K	168	42.480	109.137	140.164	1.00134.89
ATOM	19558	N	PRO	K	169	46.188	106.441	141.151	1.00135.70
ATOM	19559	CA	PRO	K	169	46.793	105.117	140.992	1.00136.45
ATOM	19560	C	PRO	K	169	45.764	103.996	141.090	1.00137.52
ATOM	19561	O	PRO	K	169	45.080	103.856	142.109	1.00136.81
ATOM	19562	CB	PRO	K	169	47.807	105.070	142.130	1.00135.62
ATOM	19563	CG	PRO	K	169	48.258	106.484	142.215	1.00134.85
ATOM	19564	CD	PRO	K	169	46.950	107.236	142.132	1.00135.23
ATOM	19565	N	MET	K	170	45.665	103.203	140.024	1.00138.89
ATOM	19566	CA	MET	K	170	44.730	102.085	139.962	1.00140.01
ATOM	19567	C	MET	K	170	43.284	102.568	140.007	1.00140.65
ATOM	19568	O	MET	K	170	42.389	101.940	139.437	1.00140.71
ATOM	19569	CB	MET	K	170	45.017	101.100	141.104	1.00140.12
ATOM	19570	CG	MET	K	170	46.175	100.149	140.807	1.00140.47
ATOM	19571	SD	MET	K	170	46.944	99.342	142.235	1.00142.61
ATOM	19572	CE	MET	K	170	48.585	100.088	142.206	1.00141.16
ATOM	19573	N	GLY	K	171	43.064	103.696	140.672	1.00141.09
ATOM	19574	CA	GLY	K	171	41.727	104.244	140.761	1.00141.76
ATOM	19575	C	GLY	K	171	41.305	104.858	139.440	1.00142.34
ATOM	19576	O	GLY	K	171	41.663	104.362	138.368	1.00142.08
ATOM	19577	N	GLU	K	172	40.544	105.944	139.521	1.00142.84
ATOM	19578	CA	GLU	K	172	40.064	106.636	138.334	1.00143.23
ATOM	19579	C	GLU	K	172	39.365	107.943	138.703	1.00143.97
ATOM	19580	O	GLU	K	172	39.193	108.263	139.881	1.00143.65
ATOM	19581	CB	GLU	K	172	39.101	105.730	137.558	1.00142.15
ATOM	19582	CG	GLU	K	172	37.832	105.349	138.306	1.00141.83
ATOM	19583	CD	GLU	K	172	36.945	104.403	137.515	1.00141.67
ATOM	19584	OE1	GLU	K	172	36.570	104.748	136.375	1.00140.55
ATOM	19585	OE2	GLU	K	172	36.619	103.316	138.036	1.00142.39
ATOM	19586	N	SER	K	173	38.970	108.696	137.682	1.00145.17
ATOM	19587	CA	SER	K	173	38.279	109.968	137.865	1.00146.78
ATOM	19588	C	SER	K	173	37.625	110.358	136.542	1.00147.29
ATOM	19589	O	SER	K	173	37.890	109.738	135.512	1.00147.86
ATOM	19590	CB	SER	K	173	39.266	111.052	138.304	1.00147.83

ATOM	19591	OG	SER K 173	39.841	110.734	139.559	1.00150.10
ATOM	19592	N	THR K 174	36.775	111.381	136.561	1.00 20.00
ATOM	19593	CG2	THR K 174	34.885	109.529	135.247	1.00 20.00
ATOM	19594	OG1	THR K 174	33.919	111.422	136.311	1.00 20.00
ATOM	19595	CB	THR K 174	34.745	111.050	135.220	1.00 20.00
ATOM	19596	CA	THR K 174	36.100	111.796	135.338	1.00 20.00
ATOM	19597	C	THR K 174	35.832	113.288	135.254	1.00 20.00
ATOM	19598	O	THR K 174	36.078	114.040	136.200	1.00 20.00
ATOM	19599	N	VAL K 175	35.316	113.700	134.101	1.00147.52
ATOM	19600	CA	VAL K 175	34.990	115.094	133.836	1.00147.59
ATOM	19601	C	VAL K 175	33.640	115.187	133.130	1.00147.55
ATOM	19602	O	VAL K 175	33.301	114.338	132.302	1.00147.03
ATOM	19603	CB	VAL K 175	36.065	115.754	132.944	1.00147.49
ATOM	19604	CG1	VAL K 175	35.684	117.195	132.651	1.00146.69
ATOM	19605	CG2	VAL K 175	37.419	115.686	133.631	1.00147.00
ATOM	19606	N	LYS K 176	32.874	116.221	133.467	1.00147.67
ATOM	19607	CA	LYS K 176	31.563	116.433	132.869	1.00147.75
ATOM	19608	C	LYS K 176	31.696	116.495	131.354	1.00147.78
ATOM	19609	O	LYS K 176	32.161	117.492	130.800	1.00147.75
ATOM	19610	CB	LYS K 176	30.942	117.732	133.395	1.00147.84
ATOM	19611	CG	LYS K 176	29.559	118.044	132.826	1.00148.21
ATOM	19612	CD	LYS K 176	28.540	116.946	133.131	1.00148.03
ATOM	19613	CE	LYS K 176	28.214	116.850	134.617	1.00147.59
ATOM	19614	NZ	LYS K 176	29.385	116.467	135.455	1.00146.75
ATOM	19615	N	LEU K 177	31.292	115.414	130.695	1.00148.02
ATOM	19616	CA	LEU K 177	31.355	115.311	129.241	1.00148.13
ATOM	19617	C	LEU K 177	30.125	115.958	128.603	1.00148.39
ATOM	19618	O	LEU K 177	29.048	115.360	128.571	1.00149.25
ATOM	19619	CB	LEU K 177	31.445	113.836	128.840	1.00147.20
ATOM	19620	CG	LEU K 177	31.399	113.451	127.362	1.00146.18
ATOM	19621	CD1	LEU K 177	32.351	114.310	126.554	1.00145.22
ATOM	19622	CD2	LEU K 177	31.760	111.983	127.240	1.00145.88
ATOM	19623	N	PRO K 178	30.275	117.191	128.082	1.00148.15
ATOM	19624	CA	PRO K 178	29.196	117.951	127.441	1.00147.59
ATOM	19625	C	PRO K 178	28.399	117.183	126.388	1.00147.24
ATOM	19626	O	PRO K 178	27.453	117.721	125.812	1.00146.76
ATOM	19627	CB	PRO K 178	29.931	119.147	126.843	1.00147.67
ATOM	19628	CG	PRO K 178	31.044	119.367	127.817	1.00147.39
ATOM	19629	CD	PRO K 178	31.532	117.959	128.050	1.00147.84
ATOM	19630	N	SER K 179	28.778	115.929	126.148	1.00147.23
ATOM	19631	CA	SER K 179	28.110	115.091	125.156	1.00147.20
ATOM	19632	C	SER K 179	28.276	115.753	123.791	1.00147.20
ATOM	19633	O	SER K 179	27.558	115.444	122.835	1.00147.09
ATOM	19634	CB	SER K 179	26.622	114.937	125.493	1.00147.23
ATOM	19635	OG	SER K 179	26.440	114.302	126.749	1.00146.45
ATOM	19636	N	ASP K 180	29.239	116.669	123.723	1.00146.68
ATOM	19637	CA	ASP K 180	29.545	117.413	122.506	1.00145.79
ATOM	19638	C	ASP K 180	30.957	117.054	122.037	1.00144.74
ATOM	19639	O	ASP K 180	31.456	117.597	121.047	1.00143.83
ATOM	19640	CB	ASP K 180	29.466	118.920	122.784	1.00146.27
ATOM	19641	CG	ASP K 180	28.155	119.331	123.442	1.00146.45
ATOM	19642	OD1	ASP K 180	27.237	118.488	123.542	1.00146.21
ATOM	19643	OD2	ASP K 180	28.039	120.504	123.858	1.00146.68
ATOM	19644	N	ALA K 181	31.593	116.135	122.761	1.00143.56
ATOM	19645	CA	ALA K 181	32.950	115.694	122.450	1.00142.04
ATOM	19646	C	ALA K 181	32.966	114.545	121.443	1.00140.55
ATOM	19647	O	ALA K 181	34.031	114.047	121.073	1.00139.95
ATOM	19648	CB	ALA K 181	33.659	115.274	123.730	1.00142.17
ATOM	19649	N	GLY K 182	31.779	114.133	121.007	1.00138.83
ATOM	19650	CA	GLY K 182	31.670	113.053	120.045	1.00135.93
ATOM	19651	C	GLY K 182	32.097	111.717	120.614	1.00134.60
ATOM	19652	O	GLY K 182	31.339	111.071	121.337	1.00133.80

ATOM	19653	N	SER K 183	33.316	111.305	120.283	1.00133.52
ATOM	19654	CA	SER K 183	33.856	110.040	120.760	1.00133.08
ATOM	19655	C	SER K 183	35.368	109.956	120.523	1.00133.80
ATOM	19656	O	SER K 183	36.018	108.998	120.956	1.00134.66
ATOM	19657	CB	SER K 183	33.153	108.873	120.057	1.00131.78
ATOM	19658	OG	SER K 183	31.770	108.836	120.366	1.00128.37
ATOM	19659	N	ASN K 184	35.922	110.964	119.848	1.00133.37
ATOM	19660	CA	ASN K 184	37.354	111.003	119.539	1.00132.74
ATOM	19661	C	ASN K 184	38.253	110.997	120.770	1.00132.28
ATOM	19662	O	ASN K 184	38.600	112.050	121.305	1.00131.55
ATOM	19663	CB	ASN K 184	37.684	112.232	118.691	1.00133.00
ATOM	19664	CG	ASN K 184	39.170	112.364	118.417	1.00134.07
ATOM	19665	OD1	ASN K 184	39.789	111.467	117.847	1.00135.10
ATOM	19666	ND2	ASN K 184	39.751	113.485	118.824	1.00134.70
ATOM	19667	N	ILE K 185	38.642	109.804	121.205	1.00132.28
ATOM	19668	CA	ILE K 185	39.501	109.659	122.371	1.00132.15
ATOM	19669	C	ILE K 185	40.887	110.250	122.088	1.00132.23
ATOM	19670	O	ILE K 185	41.677	109.670	121.340	1.00132.69
ATOM	19671	CB	ILE K 185	39.664	108.164	122.761	1.00131.99
ATOM	19672	CG1	ILE K 185	38.310	107.441	122.705	1.00130.68
ATOM	19673	CG2	ILE K 185	40.254	108.056	124.160	1.00131.35
ATOM	19674	CD1	ILE K 185	37.291	107.923	123.714	1.00128.30
ATOM	19675	N	THR K 186	41.168	111.409	122.679	1.00131.60
ATOM	19676	CA	THR K 186	42.460	112.079	122.511	1.00130.52
ATOM	19677	C	THR K 186	42.846	112.748	123.825	1.00130.37
ATOM	19678	O	THR K 186	42.028	113.429	124.439	1.00130.44
ATOM	19679	CB	THR K 186	42.404	113.153	121.407	1.00129.75
ATOM	19680	OG1	THR K 186	42.087	112.533	120.156	1.00129.22
ATOM	19681	CG2	THR K 186	43.743	113.866	121.286	1.00128.61
ATOM	19682	N	TYR K 187	44.089	112.554	124.257	1.00130.38
ATOM	19683	CA	TYR K 187	44.548	113.141	125.514	1.00130.31
ATOM	19684	C	TYR K 187	46.061	113.357	125.563	1.00129.51
ATOM	19685	O	TYR K 187	46.787	113.013	124.628	1.00129.26
ATOM	19686	CB	TYR K 187	44.118	112.253	126.695	1.00131.22
ATOM	19687	CG	TYR K 187	44.816	110.905	126.759	1.00132.50
ATOM	19688	CD1	TYR K 187	46.114	110.789	127.266	1.00132.94
ATOM	19689	CD2	TYR K 187	44.187	109.747	126.293	1.00132.84
ATOM	19690	CE1	TYR K 187	46.768	109.559	127.306	1.00132.69
ATOM	19691	CE2	TYR K 187	44.833	108.511	126.329	1.00132.86
ATOM	19692	CZ	TYR K 187	46.122	108.426	126.836	1.00132.96
ATOM	19693	OH	TYR K 187	46.767	107.213	126.870	1.00133.21
ATOM	19694	N	ARG K 188	46.520	113.930	126.673	1.00128.37
ATOM	19695	CA	ARG K 188	47.935	114.205	126.902	1.00126.84
ATOM	19696	C	ARG K 188	48.173	114.212	128.410	1.00126.11
ATOM	19697	O	ARG K 188	47.267	114.544	129.175	1.00126.43
ATOM	19698	CB	ARG K 188	48.309	115.560	126.297	1.00126.67
ATOM	19699	CG	ARG K 188	48.187	115.608	124.780	1.00125.30
ATOM	19700	CD	ARG K 188	48.343	117.017	124.247	1.00124.69
ATOM	19701	NE	ARG K 188	49.642	117.604	124.564	1.00124.75
ATOM	19702	CZ	ARG K 188	50.804	117.142	124.113	1.00124.34
ATOM	19703	NH1	ARG K 188	50.835	116.077	123.323	1.00123.70
ATOM	19704	NH2	ARG K 188	51.934	117.754	124.437	1.00123.15
ATOM	19705	N	THR K 189	49.378	113.845	128.841	1.00125.02
ATOM	19706	CA	THR K 189	49.680	113.811	130.272	1.00124.31
ATOM	19707	C	THR K 189	51.032	114.413	130.647	1.00123.27
ATOM	19708	O	THR K 189	51.978	114.406	129.862	1.00123.06
ATOM	19709	CB	THR K 189	49.645	112.366	130.826	1.00125.01
ATOM	19710	OG1	THR K 189	50.919	111.743	130.621	1.00124.48
ATOM	19711	CG2	THR K 189	48.570	111.545	130.121	1.00125.59
ATOM	19712	N	ILE K 190	51.110	114.918	131.871	1.00122.32
ATOM	19713	CA	ILE K 190	52.327	115.523	132.387	1.00120.89
ATOM	19714	C	ILE K 190	53.092	114.489	133.214	1.00120.89

ATOM	19715	O	ILE K 190	52.488	113.601	133.824	1.00120.35
ATOM	19716	CB	ILE K 190	51.986	116.745	133.254	1.00119.30
ATOM	19717	CG1	ILE K 190	51.116	117.708	132.447	1.00116.86
ATOM	19718	CG2	ILE K 190	53.261	117.434	133.716	1.00120.75
ATOM	19719	CD1	ILE K 190	50.629	118.885	133.230	1.00113.99
ATOM	19720	N	ASN K 191	54.418	114.614	133.237	1.00120.77
ATOM	19721	CA	ASN K 191	55.277	113.679	133.962	1.00120.62
ATOM	19722	C	ASN K 191	56.105	114.289	135.096	1.00119.97
ATOM	19723	O	ASN K 191	55.885	115.432	135.497	1.00119.82
ATOM	19724	CB	ASN K 191	56.210	112.986	132.970	1.00121.08
ATOM	19725	CG	ASN K 191	56.840	113.961	131.994	1.00121.15
ATOM	19726	OD1	ASN K 191	57.520	114.905	132.395	1.00120.15
ATOM	19727	ND2	ASN K 191	56.610	113.739	130.703	1.00121.94
ATOM	19728	N	ASP K 192	57.060	113.503	135.598	1.00119.56
ATOM	19729	CA	ASP K 192	57.955	113.902	136.694	1.00119.58
ATOM	19730	C	ASP K 192	58.659	115.228	136.431	1.00118.39
ATOM	19731	O	ASP K 192	58.686	116.121	137.282	1.00118.19
ATOM	19732	CB	ASP K 192	59.032	112.834	136.916	1.00120.92
ATOM	19733	CG	ASP K 192	58.456	111.443	137.065	1.00122.74
ATOM	19734	OD1	ASP K 192	57.214	111.318	137.146	1.00124.79
ATOM	19735	OD2	ASP K 192	59.251	110.476	137.106	1.00122.26
ATOM	19736	N	TYR K 193	59.248	115.326	135.246	1.00116.29
ATOM	19737	CA	TYR K 193	59.975	116.509	134.818	1.00114.77
ATOM	19738	C	TYR K 193	59.009	117.672	134.620	1.00115.85
ATOM	19739	O	TYR K 193	59.200	118.762	135.166	1.00115.15
ATOM	19740	CB	TYR K 193	60.698	116.183	133.511	1.00112.20
ATOM	19741	CG	TYR K 193	61.470	114.880	133.571	1.00108.60
ATOM	19742	CD1	TYR K 193	61.955	114.393	134.785	1.00107.27
ATOM	19743	CD2	TYR K 193	61.708	114.130	132.421	1.00107.04
ATOM	19744	CE1	TYR K 193	62.653	113.196	134.855	1.00106.32
ATOM	19745	CE2	TYR K 193	62.405	112.925	132.480	1.00105.88
ATOM	19746	CZ	TYR K 193	62.874	112.466	133.703	1.00106.22
ATOM	19747	OH	TYR K 193	63.560	111.277	133.787	1.00105.92
ATOM	19748	N	GLY K 194	57.963	117.418	133.839	1.00117.65
ATOM	19749	CA	GLY K 194	56.964	118.431	133.558	1.00119.05
ATOM	19750	C	GLY K 194	56.744	118.529	132.064	1.00119.70
ATOM	19751	O	GLY K 194	56.606	119.623	131.521	1.00119.15
ATOM	19752	N	ALA K 195	56.712	117.377	131.399	1.00121.43
ATOM	19753	CA	ALA K 195	56.525	117.329	129.953	1.00123.69
ATOM	19754	C	ALA K 195	55.244	116.616	129.537	1.00125.00
ATOM	19755	O	ALA K 195	54.909	115.547	130.050	1.00124.42
ATOM	19756	CB	ALA K 195	57.729	116.654	129.295	1.00124.66
ATOM	19757	N	LEU K 196	54.536	117.223	128.591	1.00127.19
ATOM	19758	CA	LEU K 196	53.293	116.661	128.080	1.00130.36
ATOM	19759	C	LEU K 196	53.596	115.400	127.280	1.00131.92
ATOM	19760	O	LEU K 196	54.563	115.362	126.519	1.00132.98
ATOM	19761	CB	LEU K 196	52.587	117.667	127.163	1.00130.11
ATOM	19762	CG	LEU K 196	52.217	119.068	127.655	1.00130.20
ATOM	19763	CD1	LEU K 196	51.601	119.853	126.508	1.00128.84
ATOM	19764	CD2	LEU K 196	51.245	118.979	128.817	1.00130.72
ATOM	19765	N	THR K 197	52.776	114.369	127.452	1.00133.54
ATOM	19766	CA	THR K 197	52.967	113.134	126.704	1.00135.30
ATOM	19767	C	THR K 197	52.277	113.310	125.353	1.00136.17
ATOM	19768	O	THR K 197	51.302	114.054	125.241	1.00136.01
ATOM	19769	CB	THR K 197	52.360	111.919	127.441	1.00136.05
ATOM	19770	OG1	THR K 197	50.947	112.101	127.601	1.00135.98
ATOM	19771	CG2	THR K 197	53.019	111.751	128.807	1.00136.01
ATOM	19772	N	PRO K 198	52.777	112.636	124.307	1.00137.29
ATOM	19773	CA	PRO K 198	52.166	112.762	122.980	1.00138.52
ATOM	19774	C	PRO K 198	50.686	112.381	122.965	1.00140.20
ATOM	19775	O	PRO K 198	50.207	111.696	123.874	1.00140.59
ATOM	19776	CB	PRO K 198	53.026	111.838	122.120	1.00138.23

ATOM	19777	CG	PRO K 198	53.471	110.785	123.100	1.00137.45
ATOM	19778	CD	PRO K 198	53.835	111.609	124.303	1.00137.27
ATOM	19779	N	LYS K 199	49.967	112.837	121.939	1.00141.60
ATOM	19780	CA	LYS K 199	48.541	112.539	121.801	1.00142.74
ATOM	19781	C	LYS K 199	48.309	111.060	121.511	1.00143.62
ATOM	19782	O	LYS K 199	47.904	110.689	120.409	1.00143.72
ATOM	19783	CB	LYS K 199	47.915	113.368	120.675	1.00142.27
ATOM	19784	CG	LYS K 199	47.736	114.840	120.980	1.00142.23
ATOM	19785	CD	LYS K 199	46.992	115.523	119.846	1.00142.93
ATOM	19786	CE	LYS K 199	46.786	117.001	120.117	1.00143.76
ATOM	19787	NZ	LYS K 199	46.044	117.662	119.006	1.00143.65
ATOM	19788	N	MET K 200	48.566	110.220	122.506	1.00144.51
ATOM	19789	CA	MET K 200	48.382	108.786	122.356	1.00145.09
ATOM	19790	C	MET K 200	46.890	108.511	122.207	1.00145.44
ATOM	19791	O	MET K 200	46.113	109.422	121.912	1.00145.68
ATOM	19792	CB	MET K 200	48.938	108.067	123.585	1.00145.91
ATOM	19793	CG	MET K 200	50.297	108.597	124.022	1.00147.10
ATOM	19794	SD	MET K 200	51.057	107.671	125.363	1.00148.53
ATOM	19795	CE	MET K 200	52.248	106.672	124.453	1.00146.66
ATOM	19796	N	THR K 201	46.489	107.260	122.407	1.00145.53
ATOM	19797	CA	THR K 201	45.080	106.896	122.295	1.00145.32
ATOM	19798	C	THR K 201	44.564	106.381	123.645	1.00145.17
ATOM	19799	O	THR K 201	45.345	105.933	124.490	1.00144.87
ATOM	19800	CB	THR K 201	44.863	105.805	121.204	1.00145.17
ATOM	19801	OG1	THR K 201	45.737	106.050	120.092	1.00144.34
ATOM	19802	CG2	THR K 201	43.420	105.834	120.700	1.00143.74
ATOM	19803	N	GLY K 202	43.250	106.458	123.846	1.00144.85
ATOM	19804	CA	GLY K 202	42.660	105.997	125.090	1.00144.12
ATOM	19805	C	GLY K 202	42.401	104.502	125.110	1.00143.95
ATOM	19806	O	GLY K 202	41.491	104.015	124.439	1.00143.28
ATOM	19807	N	VAL K 203	43.207	103.782	125.890	1.00144.59
ATOM	19808	CA	VAL K 203	43.107	102.325	126.023	1.00144.46
ATOM	19809	C	VAL K 203	41.772	101.894	126.629	1.00145.55
ATOM	19810	O	VAL K 203	41.726	101.423	127.761	1.00144.81
ATOM	19811	CB	VAL K 203	44.250	101.762	126.916	1.00142.97
ATOM	19812	CG1	VAL K 203	44.196	100.242	126.945	1.00140.87
ATOM	19813	CG2	VAL K 203	45.598	102.237	126.401	1.00141.82
ATOM	19814	N	MET K 204	40.696	102.050	125.861	1.00146.77
ATOM	19815	CA	MET K 204	39.349	101.687	126.301	1.00147.75
ATOM	19816	C	MET K 204	39.351	100.398	127.134	1.00148.57
ATOM	19817	O	MET K 204	40.245	99.559	127.005	1.00148.69
ATOM	19818	CB	MET K 204	38.438	101.517	125.079	1.00147.50
ATOM	19819	CG	MET K 204	36.975	101.857	125.324	1.00147.08
ATOM	19820	SD	MET K 204	36.689	103.633	125.519	1.00147.22
ATOM	19821	CE	MET K 204	36.317	104.116	123.831	1.00145.73
ATOM	19822	N	GLU K 205	38.341	100.247	127.985	1.00149.38
ATOM	19823	CA	GLU K 205	38.227	99.075	128.851	1.00150.16
ATOM	19824	C	GLU K 205	37.992	97.772	128.089	1.00149.75
ATOM	19825	O	GLU K 205	38.844	96.863	128.198	1.00148.72
ATOM	19826	CB	GLU K 205	37.097	99.288	129.864	1.00151.36
ATOM	19827	CG	GLU K 205	35.760	99.648	129.233	1.00152.30
ATOM	19828	CD	GLU K 205	34.673	99.884	130.264	1.00152.75
ATOM	19829	OE1	GLU K 205	34.944	99.722	131.475	1.00151.81
ATOM	19830	OE2	GLU K 205	33.544	100.231	129.856	1.00153.54
ATOM	19831	OXT	GLU K 205	36.956	97.675	127.399	1.00150.39
ATOM	19832	N	PHE L 1	100.381	108.696	114.057	1.00 69.78
ATOM	19833	CA	PHE L 1	99.475	109.135	115.158	1.00 71.18
ATOM	19834	C	PHE L 1	98.109	108.484	114.973	1.00 72.56
ATOM	19835	O	PHE L 1	97.622	108.335	113.845	1.00 70.58
ATOM	19836	CB	PHE L 1	99.357	110.668	115.151	1.00 68.60
ATOM	19837	CG	PHE L 1	98.444	111.234	116.218	1.00 65.28
ATOM	19838	CD1	PHE L 1	97.070	111.324	116.008	1.00 64.28

ATOM	19839	CD2	PHE	L	1	98.961	111.722	117.410	1.00	63.60
ATOM	19840	CE1	PHE	L	1	96.232	111.899	116.965	1.00	58.69
ATOM	19841	CE2	PHE	L	1	98.126	112.295	118.367	1.00	60.29
ATOM	19842	CZ	PHE	L	1	96.761	112.383	118.140	1.00	55.57
ATOM	19843	N	ALA	L	2	97.504	108.080	116.087	1.00	75.58
ATOM	19844	CA	ALA	L	2	96.195	107.439	116.049	1.00	77.27
ATOM	19845	C	ALA	L	2	95.443	107.549	117.379	1.00	77.19
ATOM	19846	O	ALA	L	2	96.051	107.652	118.451	1.00	74.65
ATOM	19847	CB	ALA	L	2	96.346	105.969	115.643	1.00	78.87
ATOM	19848	N	CYS	L	3	94.113	107.526	117.281	1.00	77.73
ATOM	19849	CA	CYS	L	3	93.223	107.627	118.434	1.00	77.12
ATOM	19850	C	CYS	L	3	92.198	106.509	118.419	1.00	78.77
ATOM	19851	O	CYS	L	3	91.920	105.923	117.367	1.00	78.98
ATOM	19852	CB	CYS	L	3	92.456	108.937	118.397	1.00	73.80
ATOM	19853	SG	CYS	L	3	93.466	110.408	118.126	1.00	70.37
ATOM	19854	N	LYS	L	4	91.618	106.237	119.584	1.00	79.77
ATOM	19855	CA	LYS	L	4	90.595	105.204	119.709	1.00	81.24
ATOM	19856	C	LYS	L	4	89.616	105.616	120.788	1.00	81.05
ATOM	19857	O	LYS	L	4	90.007	106.185	121.802	1.00	80.99
ATOM	19858	CB	LYS	L	4	91.228	103.839	120.044	1.00	82.78
ATOM	19859	CG	LYS	L	4	91.848	103.682	121.444	1.00	84.19
ATOM	19860	CD	LYS	L	4	90.878	102.998	122.419	1.00	85.56
ATOM	19861	CE	LYS	L	4	91.558	102.514	123.708	1.00	85.49
ATOM	19862	NZ	LYS	L	4	92.083	103.616	124.559	1.00	85.42
ATOM	19863	N	THR	L	5	88.339	105.343	120.565	1.00	82.88
ATOM	19864	CA	THR	L	5	87.322	105.693	121.543	1.00	87.41
ATOM	19865	C	THR	L	5	87.317	104.675	122.700	1.00	88.76
ATOM	19866	O	THR	L	5	87.778	103.544	122.545	1.00	89.71
ATOM	19867	CB	THR	L	5	85.923	105.748	120.885	1.00	87.67
ATOM	19868	OG1	THR	L	5	85.020	106.452	121.747	1.00	88.54
ATOM	19869	CG2	THR	L	5	85.382	104.339	120.644	1.00	89.44
ATOM	19870	N	ALA	L	6	86.801	105.082	123.858	1.00	89.43
ATOM	19871	CA	ALA	L	6	86.745	104.203	125.021	1.00	89.97
ATOM	19872	C	ALA	L	6	85.706	103.098	124.837	1.00	91.03
ATOM	19873	O	ALA	L	6	85.531	102.250	125.709	1.00	91.59
ATOM	19874	CB	ALA	L	6	86.426	105.020	126.273	1.00	88.14
ATOM	19875	N	ASN	L	7	85.019	103.110	123.699	1.00	92.76
ATOM	19876	CA	ASN	L	7	83.994	102.113	123.409	1.00	93.93
ATOM	19877	C	ASN	L	7	84.506	101.137	122.358	1.00	93.80
ATOM	19878	O	ASN	L	7	83.757	100.329	121.815	1.00	92.21
ATOM	19879	CB	ASN	L	7	82.716	102.803	122.917	1.00	96.19
ATOM	19880	CG	ASN	L	7	81.480	101.931	123.073	1.00	96.74
ATOM	19881	OD1	ASN	L	7	81.310	100.938	122.366	1.00	99.70
ATOM	19882	ND2	ASN	L	7	80.611	102.300	124.009	1.00	94.89
ATOM	19883	N	GLY	L	8	85.797	101.230	122.070	1.00	95.05
ATOM	19884	CA	GLY	L	8	86.394	100.336	121.100	1.00	97.09
ATOM	19885	C	GLY	L	8	86.624	100.922	119.722	1.00	97.42
ATOM	19886	O	GLY	L	8	87.638	100.624	119.087	1.00	97.53
ATOM	19887	N	THR	L	9	85.692	101.748	119.255	1.00	97.45
ATOM	19888	CA	THR	L	9	85.812	102.356	117.932	1.00	97.73
ATOM	19889	C	THR	L	9	87.056	103.229	117.846	1.00	96.91
ATOM	19890	O	THR	L	9	87.313	104.044	118.732	1.00	97.28
ATOM	19891	CB	THR	L	9	84.579	103.202	117.606	1.00	98.90
ATOM	19892	OG1	THR	L	9	83.397	102.447	117.911	1.00	103.17
ATOM	19893	CG2	THR	L	9	84.570	103.580	116.126	1.00	98.52
ATOM	19894	N	ALA	L	10	87.828	103.062	116.777	1.00	95.79
ATOM	19895	CA	ALA	L	10	89.056	103.828	116.622	1.00	95.38
ATOM	19896	C	ALA	L	10	89.257	104.458	115.249	1.00	95.47
ATOM	19897	O	ALA	L	10	88.629	104.073	114.260	1.00	94.99
ATOM	19898	CB	ALA	L	10	90.250	102.952	116.962	1.00	95.49
ATOM	19899	N	ILE	L	11	90.157	105.434	115.213	1.00	95.82
ATOM	19900	CA	ILE	L	11	90.489	106.157	113.994	1.00	95.93

ATOM	19901	C	ILE	L	11	91.956	105.907	113.657	1.00	93.86
ATOM	19902	O	ILE	L	11	92.855	106.366	114.369	1.00	93.67
ATOM	19903	CB	ILE	L	11	90.275	107.675	114.177	1.00	98.86
ATOM	19904	CG1	ILE	L	11	88.812	107.965	114.536	1.00	100.96
ATOM	19905	CG2	ILE	L	11	90.667	108.400	112.914	1.00	98.49
ATOM	19906	CD1	ILE	L	11	88.492	109.443	114.763	1.00	101.37
ATOM	19907	N	PRO	L	12	92.213	105.185	112.554	1.00	91.22
ATOM	19908	CA	PRO	L	12	93.563	104.849	112.091	1.00	88.61
ATOM	19909	C	PRO	L	12	94.436	106.055	111.757	1.00	86.85
ATOM	19910	O	PRO	L	12	94.016	107.202	111.893	1.00	86.55
ATOM	19911	CB	PRO	L	12	93.291	103.979	110.869	1.00	88.50
ATOM	19912	CG	PRO	L	12	92.044	104.580	110.315	1.00	88.99
ATOM	19913	CD	PRO	L	12	91.205	104.771	111.560	1.00	90.47
ATOM	19914	N	ILE	L	13	95.664	105.782	111.331	1.00	85.78
ATOM	19915	CA	ILE	L	13	96.596	106.836	110.956	1.00	84.03
ATOM	19916	C	ILE	L	13	95.986	107.541	109.750	1.00	84.52
ATOM	19917	O	ILE	L	13	95.117	106.986	109.079	1.00	85.11
ATOM	19918	CB	ILE	L	13	97.972	106.249	110.567	1.00	81.55
ATOM	19919	CG1	ILE	L	13	98.501	105.375	111.706	1.00	79.49
ATOM	19920	CG2	ILE	L	13	98.949	107.371	110.252	1.00	80.27
ATOM	19921	CD1	ILE	L	13	99.911	104.892	111.510	1.00	77.82
ATOM	19922	N	GLY	L	14	96.433	108.761	109.472	1.00	84.57
ATOM	19923	CA	GLY	L	14	95.884	109.493	108.344	1.00	83.39
ATOM	19924	C	GLY	L	14	94.567	110.143	108.719	1.00	82.61
ATOM	19925	O	GLY	L	14	93.850	110.666	107.866	1.00	80.99
ATOM	19926	N	GLY	L	15	94.257	110.114	110.010	1.00	82.86
ATOM	19927	CA	GLY	L	15	93.017	110.688	110.486	1.00	83.16
ATOM	19928	C	GLY	L	15	91.916	109.660	110.352	1.00	84.03
ATOM	19929	O	GLY	L	15	92.184	108.466	110.257	1.00	84.16
ATOM	19930	N	GLY	L	16	90.672	110.116	110.343	1.00	84.69
ATOM	19931	CA	GLY	L	16	89.568	109.191	110.209	1.00	86.56
ATOM	19932	C	GLY	L	16	88.225	109.782	110.585	1.00	87.82
ATOM	19933	O	GLY	L	16	87.907	110.922	110.226	1.00	88.24
ATOM	19934	N	SER	L	17	87.437	109.003	111.317	1.00	86.84
ATOM	19935	CA	SER	L	17	86.115	109.439	111.723	1.00	87.50
ATOM	19936	C	SER	L	17	85.493	108.382	112.617	1.00	87.23
ATOM	19937	O	SER	L	17	85.530	107.194	112.292	1.00	86.10
ATOM	19938	CB	SER	L	17	85.249	109.638	110.487	1.00	88.96
ATOM	19939	OG	SER	L	17	85.208	108.448	109.718	1.00	91.32
ATOM	19940	N	ALA	L	18	84.916	108.819	113.735	1.00	86.85
ATOM	19941	CA	ALA	L	18	84.297	107.901	114.686	1.00	85.61
ATOM	19942	C	ALA	L	18	83.133	108.521	115.450	1.00	84.83
ATOM	19943	O	ALA	L	18	83.062	109.736	115.635	1.00	83.79
ATOM	19944	CB	ALA	L	18	85.345	107.391	115.670	1.00	84.59
ATOM	19945	N	ASN	L	19	82.225	107.661	115.895	1.00	84.20
ATOM	19946	CA	ASN	L	19	81.054	108.081	116.646	1.00	84.67
ATOM	19947	C	ASN	L	19	81.286	107.895	118.136	1.00	85.30
ATOM	19948	O	ASN	L	19	81.526	106.784	118.606	1.00	86.11
ATOM	19949	CB	ASN	L	19	79.841	107.255	116.230	1.00	84.73
ATOM	19950	CG	ASN	L	19	79.225	107.720	114.934	1.00	85.51
ATOM	19951	OD1	ASN	L	19	79.923	108.045	113.967	1.00	84.66
ATOM	19952	ND2	ASN	L	19	77.897	107.736	114.898	1.00	85.51
ATOM	19953	N	VAL	L	20	81.208	108.984	118.883	1.00	85.58
ATOM	19954	CA	VAL	L	20	81.397	108.913	120.318	1.00	87.30
ATOM	19955	C	VAL	L	20	80.023	108.992	120.988	1.00	89.54
ATOM	19956	O	VAL	L	20	79.562	110.081	121.346	1.00	90.63
ATOM	19957	CB	VAL	L	20	82.271	110.078	120.805	1.00	86.91
ATOM	19958	CG1	VAL	L	20	82.778	109.804	122.211	1.00	86.55
ATOM	19959	CG2	VAL	L	20	83.420	110.285	119.840	1.00	87.83
ATOM	19960	N	TYR	L	21	79.367	107.842	121.147	1.00	89.75
ATOM	19961	CA	TYR	L	21	78.047	107.798	121.774	1.00	89.08
ATOM	19962	C	TYR	L	21	78.158	107.999	123.284	1.00	90.16

ATOM	19963	O	TYR	L	21	77.943	107.068	124.052	1.00	91.31
ATOM	19964	CB	TYR	L	21	77.365	106.457	121.501	1.00	86.15
ATOM	19965	CG	TYR	L	21	77.362	106.040	120.055	1.00	83.03
ATOM	19966	CD1	TYR	L	21	78.459	105.400	119.491	1.00	81.98
ATOM	19967	CD2	TYR	L	21	76.269	106.306	119.244	1.00	84.97
ATOM	19968	CE1	TYR	L	21	78.468	105.035	118.149	1.00	83.31
ATOM	19969	CE2	TYR	L	21	76.266	105.950	117.898	1.00	86.41
ATOM	19970	CZ	TYR	L	21	77.368	105.318	117.354	1.00	85.79
ATOM	19971	OH	TYR	L	21	77.373	105.010	116.006	1.00	87.75
ATOM	19972	N	VAL	L	22	78.494	109.209	123.713	1.00	90.88
ATOM	19973	CA	VAL	L	22	78.628	109.485	125.136	1.00	91.93
ATOM	19974	C	VAL	L	22	77.274	109.588	125.832	1.00	93.13
ATOM	19975	O	VAL	L	22	76.243	109.800	125.187	1.00	93.68
ATOM	19976	CB	VAL	L	22	79.397	110.795	125.382	1.00	92.03
ATOM	19977	CG1	VAL	L	22	80.833	110.642	124.926	1.00	91.86
ATOM	19978	CG2	VAL	L	22	78.721	111.939	124.644	1.00	91.70
ATOM	19979	N	ASN	L	23	77.287	109.427	127.153	1.00	93.83
ATOM	19980	CA	ASN	L	23	76.074	109.511	127.953	1.00	93.40
ATOM	19981	C	ASN	L	23	75.863	110.969	128.317	1.00	94.93
ATOM	19982	O	ASN	L	23	76.780	111.787	128.194	1.00	95.72
ATOM	19983	CB	ASN	L	23	76.201	108.677	129.231	1.00	92.35
ATOM	19984	CG	ASN	L	23	76.454	107.204	128.950	1.00	92.60
ATOM	19985	OD1	ASN	L	23	75.834	106.610	128.065	1.00	91.83
ATOM	19986	ND2	ASN	L	23	77.359	106.604	129.715	1.00	92.94
ATOM	19987	N	LEU	L	24	74.657	111.293	128.772	1.00	95.57
ATOM	19988	CA	LEU	L	24	74.331	112.661	129.143	1.00	94.91
ATOM	19989	C	LEU	L	24	73.483	112.720	130.409	1.00	95.44
ATOM	19990	O	LEU	L	24	72.491	111.997	130.535	1.00	93.66
ATOM	19991	CB	LEU	L	24	73.586	113.336	127.991	1.00	94.22
ATOM	19992	CG	LEU	L	24	74.278	113.273	126.628	1.00	93.01
ATOM	19993	CD1	LEU	L	24	73.358	113.809	125.541	1.00	89.84
ATOM	19994	CD2	LEU	L	24	75.569	114.065	126.699	1.00	93.33
ATOM	19995	N	ALA	L	25	73.888	113.582	131.342	1.00	96.46
ATOM	19996	CA	ALA	L	25	73.166	113.768	132.596	1.00	97.77
ATOM	19997	C	ALA	L	25	71.718	114.067	132.218	1.00	99.84
ATOM	19998	O	ALA	L	25	71.420	115.127	131.670	1.00	102.80
ATOM	19999	CB	ALA	L	25	73.762	114.936	133.372	1.00	94.63
ATOM	20000	N	PRO	L	26	70.801	113.127	132.489	1.00	100.49
ATOM	20001	CA	PRO	L	26	69.380	113.292	132.168	1.00	99.99
ATOM	20002	C	PRO	L	26	68.616	114.451	132.822	1.00	99.78
ATOM	20003	O	PRO	L	26	67.492	114.737	132.419	1.00	100.35
ATOM	20004	CB	PRO	L	26	68.787	111.935	132.541	1.00	100.61
ATOM	20005	CG	PRO	L	26	69.931	110.994	132.289	1.00	100.11
ATOM	20006	CD	PRO	L	26	71.075	111.744	132.916	1.00	100.72
ATOM	20007	N	VAL	L	27	69.194	115.118	133.818	1.00	99.33
ATOM	20008	CA	VAL	L	27	68.475	116.225	134.456	1.00	100.04
ATOM	20009	C	VAL	L	27	69.320	117.440	134.869	1.00	100.71
ATOM	20010	O	VAL	L	27	70.032	117.410	135.880	1.00	99.05
ATOM	20011	CB	VAL	L	27	67.687	115.732	135.692	1.00	99.86
ATOM	20012	CG1	VAL	L	27	66.949	116.892	136.337	1.00	98.18
ATOM	20013	CG2	VAL	L	27	66.697	114.650	135.281	1.00	99.78
ATOM	20014	N	VAL	L	28	69.207	118.514	134.084	1.00	101.09
ATOM	20015	CA	VAL	L	28	69.940	119.759	134.331	1.00	99.53
ATOM	20016	C	VAL	L	28	68.963	120.926	134.497	1.00	99.99
ATOM	20017	O	VAL	L	28	67.782	120.802	134.178	1.00	99.16
ATOM	20018	CB	VAL	L	28	70.880	120.106	133.148	1.00	98.42
ATOM	20019	CG1	VAL	L	28	72.050	120.946	133.649	1.00	95.13
ATOM	20020	CG2	VAL	L	28	71.347	118.837	132.444	1.00	93.76
ATOM	20021	N	ASN	L	29	69.462	122.058	134.989	1.00	100.52
ATOM	20022	CA	ASN	L	29	68.629	123.243	135.173	1.00	101.76
ATOM	20023	C	ASN	L	29	69.392	124.535	134.895	1.00	101.32
ATOM	20024	O	ASN	L	29	70.551	124.501	134.482	1.00	102.76

ATOM	20025	CB	ASN	L	29	68.039	123.273	136.588	1.00104.00
ATOM	20026	CG	ASN	L	29	66.756	122.449	136.708	1.00106.94
ATOM	20027	OD1	ASN	L	29	65.754	122.730	136.038	1.00108.59
ATOM	20028	ND2	ASN	L	29	66.781	121.432	137.566	1.00106.16
ATOM	20029	N	VAL	L	30	68.735	125.669	135.126	1.00100.40
ATOM	20030	CA	VAL	L	30	69.324	126.991	134.883	1.00 99.82
ATOM	20031	C	VAL	L	30	70.630	127.297	135.622	1.00 98.23
ATOM	20032	O	VAL	L	30	70.661	127.398	136.854	1.00 98.01
ATOM	20033	CB	VAL	L	30	68.311	128.117	135.208	1.00100.31
ATOM	20034	CG1	VAL	L	30	68.985	129.483	135.106	1.00 99.95
ATOM	20035	CG2	VAL	L	30	67.139	128.041	134.248	1.00100.52
ATOM	20036	N	GLY	L	31	71.699	127.473	134.851	1.00 95.69
ATOM	20037	CA	GLY	L	31	72.995	127.770	135.430	1.00 93.16
ATOM	20038	C	GLY	L	31	73.809	126.508	135.606	1.00 91.80
ATOM	20039	O	GLY	L	31	74.988	126.459	135.249	1.00 90.43
ATOM	20040	N	GLN	L	32	73.163	125.482	136.156	1.00 90.93
ATOM	20041	CA	GLN	L	32	73.796	124.189	136.399	1.00 90.14
ATOM	20042	C	GLN	L	32	74.408	123.647	135.096	1.00 88.11
ATOM	20043	O	GLN	L	32	73.714	123.528	134.077	1.00 87.09
ATOM	20044	CB	GLN	L	32	72.756	123.202	136.954	1.00 90.78
ATOM	20045	CG	GLN	L	32	73.352	122.016	137.704	1.00 91.67
ATOM	20046	CD	GLN	L	32	72.310	120.998	138.122	1.00 92.26
ATOM	20047	OE1	GLN	L	32	71.667	120.369	137.281	1.00 94.29
ATOM	20048	NE2	GLN	L	32	72.138	120.828	139.428	1.00 92.96
ATOM	20049	N	ASN	L	33	75.700	123.316	135.141	1.00 83.91
ATOM	20050	CA	ASN	L	33	76.404	122.812	133.968	1.00 79.86
ATOM	20051	C	ASN	L	33	76.063	121.407	133.526	1.00 76.90
ATOM	20052	O	ASN	L	33	75.691	120.558	134.330	1.00 76.09
ATOM	20053	CB	ASN	L	33	77.909	122.914	134.167	1.00 82.31
ATOM	20054	CG	ASN	L	33	78.451	124.257	133.746	1.00 84.88
ATOM	20055	OD1	ASN	L	33	78.274	125.263	134.439	1.00 87.88
ATOM	20056	ND2	ASN	L	33	79.099	124.290	132.587	1.00 85.13
ATOM	20057	N	LEU	L	34	76.213	121.181	132.225	1.00 74.59
ATOM	20058	CA	LEU	L	34	75.924	119.898	131.595	1.00 74.13
ATOM	20059	C	LEU	L	34	77.189	119.307	130.985	1.00 75.14
ATOM	20060	O	LEU	L	34	77.151	118.720	129.905	1.00 75.71
ATOM	20061	CB	LEU	L	34	74.864	120.096	130.511	1.00 73.40
ATOM	20062	CG	LEU	L	34	74.571	118.987	129.504	1.00 73.45
ATOM	20063	CD1	LEU	L	34	74.418	117.647	130.201	1.00 73.59
ATOM	20064	CD2	LEU	L	34	73.317	119.357	128.741	1.00 73.81
ATOM	20065	N	VAL	L	35	78.304	119.461	131.697	1.00 76.21
ATOM	20066	CA	VAL	L	35	79.616	118.976	131.257	1.00 75.52
ATOM	20067	C	VAL	L	35	79.582	117.701	130.408	1.00 74.90
ATOM	20068	O	VAL	L	35	78.852	116.754	130.712	1.00 74.54
ATOM	20069	CB	VAL	L	35	80.552	118.732	132.466	1.00 76.13
ATOM	20070	CG1	VAL	L	35	81.971	118.451	131.975	1.00 76.43
ATOM	20071	CG2	VAL	L	35	80.531	119.938	133.402	1.00 75.00
ATOM	20072	N	VAL	L	36	80.380	117.696	129.343	1.00 73.44
ATOM	20073	CA	VAL	L	36	80.474	116.563	128.427	1.00 72.58
ATOM	20074	C	VAL	L	36	81.941	116.287	128.123	1.00 72.64
ATOM	20075	O	VAL	L	36	82.419	116.570	127.029	1.00 73.35
ATOM	20076	CB	VAL	L	36	79.746	116.858	127.103	1.00 72.64
ATOM	20077	CG1	VAL	L	36	79.885	115.671	126.150	1.00 71.82
ATOM	20078	CG2	VAL	L	36	78.279	117.169	127.378	1.00 72.79
ATOM	20079	N	ASP	L	37	82.649	115.732	129.102	1.00 73.48
ATOM	20080	CA	ASP	L	37	84.075	115.428	128.968	1.00 73.38
ATOM	20081	C	ASP	L	37	84.372	114.204	128.116	1.00 72.10
ATOM	20082	O	ASP	L	37	83.774	113.148	128.298	1.00 70.70
ATOM	20083	CB	ASP	L	37	84.709	115.229	130.348	1.00 71.63
ATOM	20084	CG	ASP	L	37	86.192	114.935	130.268	1.00 69.32
ATOM	20085	OD1	ASP	L	37	86.772	115.059	129.167	1.00 67.34
ATOM	20086	OD2	ASP	L	37	86.778	114.586	131.310	1.00 71.10

ATOM	20087	N	LEU	L	38	85.319	114.345	127.199	1.00	72.36
ATOM	20088	CA	LEU	L	38	85.676	113.228	126.344	1.00	73.32
ATOM	20089	C	LEU	L	38	87.109	112.729	126.572	1.00	73.99
ATOM	20090	O	LEU	L	38	87.555	111.763	125.943	1.00	72.27
ATOM	20091	CB	LEU	L	38	85.430	113.601	124.881	1.00	71.81
ATOM	20092	CG	LEU	L	38	83.987	114.064	124.662	1.00	67.21
ATOM	20093	CD1	LEU	L	38	83.953	115.562	124.852	1.00	67.95
ATOM	20094	CD2	LEU	L	38	83.486	113.696	123.277	1.00	65.70
ATOM	20095	N	SER	L	39	87.828	113.387	127.478	1.00	75.07
ATOM	20096	CA	SER	L	39	89.174	112.949	127.811	1.00	76.58
ATOM	20097	C	SER	L	39	88.874	111.781	128.735	1.00	77.54
ATOM	20098	O	SER	L	39	89.405	111.672	129.839	1.00	77.23
ATOM	20099	CB	SER	L	39	89.957	114.037	128.560	1.00	77.55
ATOM	20100	OG	SER	L	39	89.534	114.157	129.909	1.00	78.57
ATOM	20101	N	THR	L	40	87.976	110.926	128.257	1.00	79.62
ATOM	20102	CA	THR	L	40	87.515	109.740	128.966	1.00	81.67
ATOM	20103	C	THR	L	40	86.632	108.979	127.978	1.00	82.04
ATOM	20104	O	THR	L	40	85.975	107.998	128.324	1.00	83.00
ATOM	20105	CB	THR	L	40	86.672	110.122	130.205	1.00	81.40
ATOM	20106	OG1	THR	L	40	87.471	110.898	131.110	1.00	81.44
ATOM	20107	CG2	THR	L	40	86.173	108.876	130.919	1.00	81.87
ATOM	20108	N	GLN	L	41	86.624	109.449	126.737	1.00	80.83
ATOM	20109	CA	GLN	L	41	85.827	108.822	125.699	1.00	80.67
ATOM	20110	C	GLN	L	41	86.641	108.704	124.431	1.00	79.93
ATOM	20111	O	GLN	L	41	86.224	108.048	123.474	1.00	78.91
ATOM	20112	CB	GLN	L	41	84.570	109.643	125.434	1.00	83.15
ATOM	20113	CG	GLN	L	41	83.554	109.574	126.555	1.00	85.43
ATOM	20114	CD	GLN	L	41	82.924	108.205	126.670	1.00	87.15
ATOM	20115	OE1	GLN	L	41	82.049	107.985	127.508	1.00	88.15
ATOM	20116	NE2	GLN	L	41	83.361	107.273	125.821	1.00	87.57
ATOM	20117	N	ILE	L	42	87.802	109.355	124.432	1.00	78.47
ATOM	20118	CA	ILE	L	42	88.709	109.322	123.292	1.00	77.18
ATOM	20119	C	ILE	L	42	90.156	109.486	123.737	1.00	76.70
ATOM	20120	O	ILE	L	42	90.478	110.379	124.523	1.00	76.72
ATOM	20121	CB	ILE	L	42	88.414	110.443	122.292	1.00	78.04
ATOM	20122	CG1	ILE	L	42	86.993	110.313	121.751	1.00	79.39
ATOM	20123	CG2	ILE	L	42	89.414	110.381	121.153	1.00	77.55
ATOM	20124	CD1	ILE	L	42	86.564	111.487	120.897	1.00	79.46
ATOM	20125	N	PHE	L	43	91.027	108.621	123.227	1.00	75.29
ATOM	20126	CA	PHE	L	43	92.442	108.680	123.556	1.00	73.21
ATOM	20127	C	PHE	L	43	93.273	108.561	122.288	1.00	73.36
ATOM	20128	O	PHE	L	43	92.824	107.996	121.283	1.00	72.93
ATOM	20129	CB	PHE	L	43	92.813	107.549	124.508	1.00	72.93
ATOM	20130	CG	PHE	L	43	91.957	107.489	125.728	1.00	73.57
ATOM	20131	CD1	PHE	L	43	90.636	107.058	125.646	1.00	71.24
ATOM	20132	CD2	PHE	L	43	92.459	107.898	126.963	1.00	74.14
ATOM	20133	CE1	PHE	L	43	89.826	107.039	126.776	1.00	72.44
ATOM	20134	CE2	PHE	L	43	91.658	107.883	128.100	1.00	74.03
ATOM	20135	CZ	PHE	L	43	90.339	107.454	128.009	1.00	73.20
ATOM	20136	N	CYS	L	44	94.484	109.101	122.338	1.00	72.93
ATOM	20137	CA	CYS	L	44	95.395	109.047	121.204	1.00	72.56
ATOM	20138	C	CYS	L	44	96.801	108.785	121.713	1.00	73.59
ATOM	20139	O	CYS	L	44	97.145	109.166	122.831	1.00	73.59
ATOM	20140	CB	CYS	L	44	95.416	110.371	120.449	1.00	70.16
ATOM	20141	SG	CYS	L	44	93.814	111.087	120.008	1.00	67.45
ATOM	20142	N	HIS	L	45	97.612	108.137	120.886	1.00	75.55
ATOM	20143	CA	HIS	L	45	98.994	107.861	121.242	1.00	76.05
ATOM	20144	C	HIS	L	45	99.873	108.178	120.036	1.00	76.71
ATOM	20145	O	HIS	L	45	99.375	108.412	118.928	1.00	75.86
ATOM	20146	CB	HIS	L	45	99.161	106.401	121.656	1.00	76.38
ATOM	20147	CG	HIS	L	45	98.983	105.434	120.534	1.00	78.86
ATOM	20148	ND1	HIS	L	45	97.883	105.456	119.704	1.00	79.48

ATOM	20149	CD2	HIS	L	45	99.767	104.419	120.097	1.00	80.43
ATOM	20150	CE1	HIS	L	45	97.997	104.496	118.803	1.00	80.80
ATOM	20151	NE2	HIS	L	45	99.131	103.852	119.020	1.00	81.31
ATOM	20152	N	ASN	L	46	101.183	108.177	120.255	1.00	77.30
ATOM	20153	CA	ASN	L	46	102.142	108.485	119.199	1.00	76.87
ATOM	20154	C	ASN	L	46	102.797	107.214	118.658	1.00	76.99
ATOM	20155	O	ASN	L	46	103.186	106.334	119.432	1.00	77.63
ATOM	20156	CB	ASN	L	46	103.202	109.428	119.759	1.00	74.45
ATOM	20157	CG	ASN	L	46	103.852	110.265	118.697	1.00	72.41
ATOM	20158	OD1	ASN	L	46	103.210	110.682	117.736	1.00	70.81
ATOM	20159	ND2	ASN	L	46	105.133	110.542	118.875	1.00	73.70
ATOM	20160	N	ASP	L	47	102.918	107.117	117.334	1.00	75.80
ATOM	20161	CA	ASP	L	47	103.523	105.939	116.723	1.00	75.48
ATOM	20162	C	ASP	L	47	105.047	105.941	116.693	1.00	74.71
ATOM	20163	O	ASP	L	47	105.668	104.878	116.758	1.00	73.56
ATOM	20164	CB	ASP	L	47	102.988	105.731	115.307	1.00	76.27
ATOM	20165	CG	ASP	L	47	101.596	105.137	115.298	1.00	78.46
ATOM	20166	OD1	ASP	L	47	101.310	104.282	116.164	1.00	78.62
ATOM	20167	OD2	ASP	L	47	100.795	105.512	114.418	1.00	80.86
ATOM	20168	N	TYR	L	48	105.640	107.128	116.582	1.00	74.57
ATOM	20169	CA	TYR	L	48	107.096	107.275	116.558	1.00	75.72
ATOM	20170	C	TYR	L	48	107.542	108.331	117.562	1.00	75.05
ATOM	20171	O	TYR	L	48	108.125	109.346	117.178	1.00	73.84
ATOM	20172	CB	TYR	L	48	107.589	107.698	115.173	1.00	78.16
ATOM	20173	CG	TYR	L	48	107.439	106.660	114.081	1.00	85.47
ATOM	20174	CD1	TYR	L	48	106.177	106.186	113.708	1.00	87.92
ATOM	20175	CD2	TYR	L	48	108.555	106.208	113.360	1.00	88.08
ATOM	20176	CE1	TYR	L	48	106.023	105.301	112.641	1.00	88.56
ATOM	20177	CE2	TYR	L	48	108.408	105.322	112.285	1.00	88.93
ATOM	20178	CZ	TYR	L	48	107.133	104.883	111.932	1.00	89.78
ATOM	20179	OH	TYR	L	48	106.953	104.067	110.839	1.00	91.65
ATOM	20180	N	PRO	L	49	107.288	108.098	118.863	1.00	74.92
ATOM	20181	CA	PRO	L	49	107.660	109.039	119.926	1.00	74.34
ATOM	20182	C	PRO	L	49	109.155	109.300	120.032	1.00	72.89
ATOM	20183	O	PRO	L	49	109.587	110.431	120.253	1.00	73.01
ATOM	20184	CB	PRO	L	49	107.093	108.376	121.181	1.00	75.97
ATOM	20185	CG	PRO	L	49	107.212	106.918	120.864	1.00	76.25
ATOM	20186	CD	PRO	L	49	106.721	106.864	119.438	1.00	74.58
ATOM	20187	N	GLU	L	50	109.942	108.247	119.872	1.00	71.46
ATOM	20188	CA	GLU	L	50	111.387	108.367	119.958	1.00	71.40
ATOM	20189	C	GLU	L	50	111.948	109.467	119.056	1.00	71.10
ATOM	20190	O	GLU	L	50	112.831	110.220	119.468	1.00	70.79
ATOM	20191	CB	GLU	L	50	112.040	107.021	119.612	1.00	70.79
ATOM	20192	CG	GLU	L	50	111.847	105.937	120.668	1.00	70.56
ATOM	20193	CD	GLU	L	50	110.386	105.647	120.966	1.00	71.80
ATOM	20194	OE1	GLU	L	50	109.687	105.120	120.074	1.00	68.49
ATOM	20195	OE2	GLU	L	50	109.938	105.951	122.095	1.00	71.04
ATOM	20196	N	THR	L	51	111.424	109.571	117.836	1.00	70.86
ATOM	20197	CA	THR	L	51	111.908	110.563	116.880	1.00	70.94
ATOM	20198	C	THR	L	51	110.907	111.652	116.523	1.00	72.15
ATOM	20199	O	THR	L	51	111.277	112.812	116.349	1.00	70.95
ATOM	20200	CB	THR	L	51	112.323	109.898	115.563	1.00	70.70
ATOM	20201	OG1	THR	L	51	112.897	108.614	115.837	1.00	69.71
ATOM	20202	CG2	THR	L	51	113.340	110.778	114.821	1.00	67.68
ATOM	20203	N	ILE	L	52	109.641	111.277	116.401	1.00	74.55
ATOM	20204	CA	ILE	L	52	108.607	112.238	116.029	1.00	77.99
ATOM	20205	C	ILE	L	52	107.677	112.608	117.186	1.00	79.05
ATOM	20206	O	ILE	L	52	107.247	111.744	117.952	1.00	79.21
ATOM	20207	CB	ILE	L	52	107.741	111.681	114.869	1.00	78.74
ATOM	20208	CG1	ILE	L	52	108.638	110.995	113.831	1.00	81.01
ATOM	20209	CG2	ILE	L	52	106.959	112.808	114.218	1.00	76.85
ATOM	20210	CD1	ILE	L	52	107.887	110.242	112.745	1.00	80.87

ATOM	20211	N	THR	L	53	107.377	113.897	117.319	1.00	80.19
ATOM	20212	CA	THR	L	53	106.456	114.362	118.359	1.00	80.87
ATOM	20213	C	THR	L	53	105.275	115.071	117.688	1.00	79.52
ATOM	20214	O	THR	L	53	105.455	115.997	116.893	1.00	78.82
ATOM	20215	CB	THR	L	53	107.152	115.308	119.365	1.00	81.38
ATOM	20216	OG1	THR	L	53	108.072	116.162	118.672	1.00	84.74
ATOM	20217	CG2	THR	L	53	107.898	114.504	120.415	1.00	81.60
ATOM	20218	N	ASP	L	54	104.068	114.615	118.008	1.00	78.21
ATOM	20219	CA	ASP	L	54	102.851	115.160	117.417	1.00	77.42
ATOM	20220	C	ASP	L	54	102.131	116.244	118.204	1.00	72.85
ATOM	20221	O	ASP	L	54	102.048	116.208	119.428	1.00	70.88
ATOM	20222	CB	ASP	L	54	101.861	114.022	117.124	1.00	84.28
ATOM	20223	CG	ASP	L	54	101.640	113.803	115.628	1.00	90.63
ATOM	20224	OD1	ASP	L	54	101.130	114.733	114.955	1.00	93.57
ATOM	20225	OD2	ASP	L	54	101.979	112.704	115.130	1.00	92.07
ATOM	20226	N	TYR	L	55	101.602	117.209	117.464	1.00	69.42
ATOM	20227	CA	TYR	L	55	100.852	118.320	118.033	1.00	66.43
ATOM	20228	C	TYR	L	55	99.403	118.073	117.651	1.00	65.60
ATOM	20229	O	TYR	L	55	99.094	117.866	116.477	1.00	68.30
ATOM	20230	CB	TYR	L	55	101.324	119.642	117.424	1.00	60.05
ATOM	20231	CG	TYR	L	55	102.817	119.788	117.431	1.00	55.53
ATOM	20232	CD1	TYR	L	55	103.563	119.398	118.537	1.00	53.88
ATOM	20233	CD2	TYR	L	55	103.486	120.308	116.329	1.00	53.65
ATOM	20234	CE1	TYR	L	55	104.934	119.521	118.546	1.00	57.30
ATOM	20235	CE2	TYR	L	55	104.858	120.436	116.323	1.00	54.53
ATOM	20236	CZ	TYR	L	55	105.584	120.044	117.436	1.00	58.08
ATOM	20237	OH	TYR	L	55	106.956	120.194	117.459	1.00	59.44
ATOM	20238	N	VAL	L	56	98.511	118.082	118.628	1.00	62.94
ATOM	20239	CA	VAL	L	56	97.118	117.855	118.316	1.00	62.02
ATOM	20240	C	VAL	L	56	96.277	119.031	118.796	1.00	60.91
ATOM	20241	O	VAL	L	56	96.469	119.544	119.897	1.00	58.17
ATOM	20242	CB	VAL	L	56	96.631	116.553	118.957	1.00	63.91
ATOM	20243	CG1	VAL	L	56	95.331	116.108	118.303	1.00	63.52
ATOM	20244	CG2	VAL	L	56	97.701	115.487	118.818	1.00	62.56
ATOM	20245	N	THR	L	57	95.340	119.454	117.956	1.00	59.64
ATOM	20246	CA	THR	L	57	94.487	120.585	118.283	1.00	57.13
ATOM	20247	C	THR	L	57	93.025	120.293	117.973	1.00	58.77
ATOM	20248	O	THR	L	57	92.700	119.252	117.396	1.00	61.01
ATOM	20249	CB	THR	L	57	94.895	121.795	117.452	1.00	52.86
ATOM	20250	OG1	THR	L	57	94.396	121.640	116.118	1.00	45.08
ATOM	20251	CG2	THR	L	57	96.404	121.891	117.388	1.00	50.57
ATOM	20252	N	LEU	L	58	92.147	121.209	118.376	1.00	58.07
ATOM	20253	CA	LEU	L	58	90.726	121.092	118.072	1.00	58.41
ATOM	20254	C	LEU	L	58	90.469	122.138	116.983	1.00	59.57
ATOM	20255	O	LEU	L	58	90.189	123.305	117.272	1.00	58.37
ATOM	20256	CB	LEU	L	58	89.855	121.379	119.304	1.00	58.40
ATOM	20257	CG	LEU	L	58	88.327	121.386	119.071	1.00	59.05
ATOM	20258	CD1	LEU	L	58	87.819	120.003	118.652	1.00	57.31
ATOM	20259	CD2	LEU	L	58	87.631	121.843	120.333	1.00	55.48
ATOM	20260	N	GLN	L	59	90.607	121.706	115.733	1.00	62.14
ATOM	20261	CA	GLN	L	59	90.416	122.556	114.561	1.00	65.13
ATOM	20262	C	GLN	L	59	89.138	123.376	114.655	1.00	66.97
ATOM	20263	O	GLN	L	59	89.152	124.605	114.549	1.00	66.83
ATOM	20264	CB	GLN	L	59	90.348	121.681	113.312	1.00	67.24
ATOM	20265	CG	GLN	L	59	91.546	121.754	112.405	1.00	73.66
ATOM	20266	CD	GLN	L	59	91.515	122.963	111.493	1.00	77.42
ATOM	20267	OE1	GLN	L	59	91.623	124.108	111.947	1.00	79.08
ATOM	20268	NE2	GLN	L	59	91.362	122.717	110.194	1.00	78.01
ATOM	20269	N	ARG	L	60	88.029	122.670	114.839	1.00	68.99
ATOM	20270	CA	ARG	L	60	86.716	123.283	114.930	1.00	70.43
ATOM	20271	C	ARG	L	60	85.905	122.512	115.965	1.00	72.21
ATOM	20272	O	ARG	L	60	86.446	121.790	116.807	1.00	71.90

ATOM	20273	CB	ARG	L	60	86.009	123.224	113.564	1.00	68.66
ATOM	20274	CG	ARG	L	60	84.817	124.156	113.427	1.00	71.03
ATOM	20275	CD	ARG	L	60	84.160	124.059	112.053	1.00	76.66
ATOM	20276	NE	ARG	L	60	83.173	122.978	111.956	1.00	82.56
ATOM	20277	CZ	ARG	L	60	83.314	121.870	111.227	1.00	81.78
ATOM	20278	NH1	ARG	L	60	84.412	121.666	110.509	1.00	81.51
ATOM	20279	NH2	ARG	L	60	82.346	120.962	111.215	1.00	80.88
ATOM	20280	N	GLY	L	61	84.593	122.666	115.880	1.00	73.39
ATOM	20281	CA	GLY	L	61	83.701	121.997	116.799	1.00	72.30
ATOM	20282	C	GLY	L	61	82.348	122.630	116.607	1.00	70.94
ATOM	20283	O	GLY	L	61	82.114	123.741	117.085	1.00	70.70
ATOM	20284	N	SER	L	62	81.473	121.935	115.884	1.00	69.34
ATOM	20285	CA	SER	L	62	80.133	122.434	115.615	1.00	68.40
ATOM	20286	C	SER	L	62	79.082	121.730	116.462	1.00	68.48
ATOM	20287	O	SER	L	62	79.097	120.509	116.590	1.00	68.43
ATOM	20288	CB	SER	L	62	79.804	122.260	114.136	1.00	66.84
ATOM	20289	OG	SER	L	62	80.774	122.912	113.342	1.00	65.23
ATOM	20290	N	ALA	L	63	78.179	122.514	117.048	1.00	68.38
ATOM	20291	CA	ALA	L	63	77.104	121.977	117.873	1.00	67.54
ATOM	20292	C	ALA	L	63	75.885	121.724	116.982	1.00	66.63
ATOM	20293	O	ALA	L	63	75.731	122.364	115.940	1.00	64.60
ATOM	20294	CB	ALA	L	63	76.755	122.965	118.981	1.00	66.77
ATOM	20295	N	TYR	L	64	75.040	120.770	117.373	1.00	66.19
ATOM	20296	CA	TYR	L	64	73.839	120.452	116.604	1.00	64.54
ATOM	20297	C	TYR	L	64	72.645	120.265	117.524	1.00	63.95
ATOM	20298	O	TYR	L	64	72.759	120.380	118.748	1.00	62.27
ATOM	20299	CB	TYR	L	64	74.043	119.185	115.769	1.00	64.70
ATOM	20300	CG	TYR	L	64	75.189	119.281	114.790	1.00	68.10
ATOM	20301	CD1	TYR	L	64	76.502	119.421	115.238	1.00	69.71
ATOM	20302	CD2	TYR	L	64	74.965	119.269	113.414	1.00	68.52
ATOM	20303	CE1	TYR	L	64	77.561	119.554	114.347	1.00	68.08
ATOM	20304	CE2	TYR	L	64	76.023	119.399	112.512	1.00	67.43
ATOM	20305	CZ	TYR	L	64	77.316	119.543	112.994	1.00	67.25
ATOM	20306	OH	TYR	L	64	78.371	119.686	112.130	1.00	68.91
ATOM	20307	N	GLY	L	65	71.499	119.988	116.914	1.00	64.17
ATOM	20308	CA	GLY	L	65	70.271	119.774	117.656	1.00	66.46
ATOM	20309	C	GLY	L	65	70.120	120.460	119.004	1.00	67.95
ATOM	20310	O	GLY	L	65	70.447	121.634	119.164	1.00	66.86
ATOM	20311	N	GLY	L	66	69.614	119.701	119.973	1.00	69.52
ATOM	20312	CA	GLY	L	66	69.386	120.205	121.314	1.00	70.66
ATOM	20313	C	GLY	L	66	70.416	121.150	121.905	1.00	72.38
ATOM	20314	O	GLY	L	66	70.050	122.089	122.618	1.00	73.02
ATOM	20315	N	VAL	L	67	71.696	120.909	121.628	1.00	72.81
ATOM	20316	CA	VAL	L	67	72.770	121.752	122.159	1.00	73.59
ATOM	20317	C	VAL	L	67	72.822	123.101	121.451	1.00	72.77
ATOM	20318	O	VAL	L	67	72.979	124.155	122.085	1.00	71.94
ATOM	20319	CB	VAL	L	67	74.162	121.051	122.022	1.00	76.04
ATOM	20320	CG1	VAL	L	67	75.296	122.077	122.139	1.00	77.70
ATOM	20321	CG2	VAL	L	67	74.325	119.998	123.116	1.00	75.52
ATOM	20322	N	LEU	L	68	72.676	123.046	120.131	1.00	71.21
ATOM	20323	CA	LEU	L	68	72.706	124.225	119.278	1.00	69.34
ATOM	20324	C	LEU	L	68	71.562	125.221	119.515	1.00	70.65
ATOM	20325	O	LEU	L	68	71.502	126.262	118.854	1.00	72.17
ATOM	20326	CB	LEU	L	68	72.693	123.781	117.817	1.00	63.08
ATOM	20327	CG	LEU	L	68	72.730	124.888	116.778	1.00	58.25
ATOM	20328	CD1	LEU	L	68	73.918	125.787	117.045	1.00	58.89
ATOM	20329	CD2	LEU	L	68	72.817	124.283	115.403	1.00	58.03
ATOM	20330	N	SER	L	69	70.665	124.921	120.454	1.00	70.03
ATOM	20331	CA	SER	L	69	69.538	125.808	120.706	1.00	67.84
ATOM	20332	C	SER	L	69	69.029	125.808	122.129	1.00	68.59
ATOM	20333	O	SER	L	69	68.018	126.447	122.402	1.00	69.28
ATOM	20334	CB	SER	L	69	68.369	125.445	119.797	1.00	67.28

ATOM	20335	OG	SER	L	69	67.783	124.224	120.211	1.00	65.75
ATOM	20336	N	ASN	L	70	69.699	125.102	123.036	1.00	69.12
ATOM	20337	CA	ASN	L	70	69.236	125.065	124.424	1.00	69.81
ATOM	20338	C	ASN	L	70	70.297	125.286	125.490	1.00	70.45
ATOM	20339	O	ASN	L	70	70.007	125.198	126.692	1.00	69.99
ATOM	20340	CB	ASN	L	70	68.514	123.748	124.704	1.00	70.61
ATOM	20341	CG	ASN	L	70	67.065	123.768	124.242	1.00	73.97
ATOM	20342	OD1	ASN	L	70	66.229	124.502	124.791	1.00	69.56
ATOM	20343	ND2	ASN	L	70	66.760	122.963	123.223	1.00	75.16
ATOM	20344	N	PHE	L	71	71.525	125.574	125.069	1.00	70.90
ATOM	20345	CA	PHE	L	71	72.578	125.792	126.044	1.00	71.40
ATOM	20346	C	PHE	L	71	73.612	126.801	125.599	1.00	71.08
ATOM	20347	O	PHE	L	71	73.976	126.849	124.434	1.00	71.77
ATOM	20348	CB	PHE	L	71	73.288	124.475	126.371	1.00	73.31
ATOM	20349	CG	PHE	L	71	72.352	123.319	126.624	1.00	75.67
ATOM	20350	CD1	PHE	L	71	71.878	122.543	125.560	1.00	74.15
ATOM	20351	CD2	PHE	L	71	71.933	123.016	127.919	1.00	75.14
ATOM	20352	CE1	PHE	L	71	71.007	121.487	125.779	1.00	71.59
ATOM	20353	CE2	PHE	L	71	71.061	121.961	128.151	1.00	74.97
ATOM	20354	CZ	PHE	L	71	70.595	121.193	127.078	1.00	76.10
ATOM	20355	N	SER	L	72	74.075	127.613	126.542	1.00	71.42
ATOM	20356	CA	SER	L	72	75.103	128.606	126.268	1.00	69.93
ATOM	20357	C	SER	L	72	76.380	127.988	126.793	1.00	70.35
ATOM	20358	O	SER	L	72	76.561	127.880	128.006	1.00	70.66
ATOM	20359	CB	SER	L	72	74.829	129.912	127.025	1.00	69.13
ATOM	20360	OG	SER	L	72	75.042	129.770	128.421	1.00	62.89
ATOM	20361	N	GLY	L	73	77.267	127.575	125.894	1.00	70.99
ATOM	20362	CA	GLY	L	73	78.495	126.955	126.361	1.00	72.61
ATOM	20363	C	GLY	L	73	79.827	127.240	125.690	1.00	71.15
ATOM	20364	O	GLY	L	73	79.909	127.827	124.608	1.00	68.91
ATOM	20365	N	THR	L	74	80.883	126.807	126.374	1.00	70.84
ATOM	20366	CA	THR	L	74	82.249	126.952	125.900	1.00	70.31
ATOM	20367	C	THR	L	74	82.842	125.550	125.806	1.00	70.08
ATOM	20368	O	THR	L	74	82.150	124.558	126.022	1.00	69.94
ATOM	20369	CB	THR	L	74	83.090	127.771	126.884	1.00	68.15
ATOM	20370	OG1	THR	L	74	82.988	127.185	128.181	1.00	69.02
ATOM	20371	CG2	THR	L	74	82.604	129.192	126.954	1.00	67.09
ATOM	20372	N	VAL	L	75	84.124	125.474	125.475	1.00	70.93
ATOM	20373	CA	VAL	L	75	84.813	124.195	125.372	1.00	70.49
ATOM	20374	C	VAL	L	75	86.103	124.278	126.176	1.00	71.38
ATOM	20375	O	VAL	L	75	86.893	125.222	126.022	1.00	70.09
ATOM	20376	CB	VAL	L	75	85.154	123.840	123.904	1.00	69.88
ATOM	20377	CG1	VAL	L	75	86.221	124.786	123.367	1.00	72.64
ATOM	20378	CG2	VAL	L	75	85.621	122.407	123.811	1.00	65.85
ATOM	20379	N	LYS	L	76	86.294	123.300	127.056	1.00	72.40
ATOM	20380	CA	LYS	L	76	87.490	123.240	127.887	1.00	72.34
ATOM	20381	C	LYS	L	76	88.508	122.413	127.136	1.00	70.85
ATOM	20382	O	LYS	L	76	88.275	121.219	126.906	1.00	69.05
ATOM	20383	CB	LYS	L	76	87.188	122.561	129.223	1.00	73.95
ATOM	20384	CG	LYS	L	76	88.415	122.369	130.110	1.00	75.58
ATOM	20385	CD	LYS	L	76	88.086	121.527	131.342	1.00	78.50
ATOM	20386	CE	LYS	L	76	89.298	121.352	132.256	1.00	78.97
ATOM	20387	NZ	LYS	L	76	88.943	120.625	133.513	1.00	79.05
ATOM	20388	N	TYR	L	77	89.618	123.042	126.742	1.00	69.05
ATOM	20389	CA	TYR	L	77	90.667	122.331	126.017	1.00	67.44
ATOM	20390	C	TYR	L	77	92.027	122.436	126.685	1.00	66.00
ATOM	20391	O	TYR	L	77	92.798	123.350	126.402	1.00	67.36
ATOM	20392	CB	TYR	L	77	90.799	122.833	124.581	1.00	66.88
ATOM	20393	CG	TYR	L	77	91.768	121.994	123.773	1.00	67.37
ATOM	20394	CD1	TYR	L	77	91.447	120.682	123.425	1.00	68.57
ATOM	20395	CD2	TYR	L	77	93.014	122.495	123.384	1.00	66.43
ATOM	20396	CE1	TYR	L	77	92.335	119.885	122.713	1.00	69.20

ATOM	20397	CE2	TYR	L	77	93.912	121.707	122.670	1.00	68.14
ATOM	20398	CZ	TYR	L	77	93.564	120.400	122.337	1.00	71.17
ATOM	20399	OH	TYR	L	77	94.432	119.600	121.620	1.00	74.91
ATOM	20400	N	SER	L	78	92.322	121.490	127.567	1.00	64.32
ATOM	20401	CA	SER	L	78	93.595	121.485	128.253	1.00	64.27
ATOM	20402	C	SER	L	78	93.802	122.757	129.075	1.00	64.75
ATOM	20403	O	SER	L	78	94.589	123.630	128.692	1.00	64.47
ATOM	20404	CB	SER	L	78	94.722	121.337	127.230	1.00	63.89
ATOM	20405	OG	SER	L	78	95.993	121.300	127.855	1.00	67.95
ATOM	20406	N	GLY	L	79	93.086	122.855	130.197	1.00	64.74
ATOM	20407	CA	GLY	L	79	93.214	124.007	131.081	1.00	63.06
ATOM	20408	C	GLY	L	79	92.415	125.238	130.701	1.00	62.15
ATOM	20409	O	GLY	L	79	91.666	125.768	131.524	1.00	62.23
ATOM	20410	N	SER	L	80	92.581	125.704	129.466	1.00	60.44
ATOM	20411	CA	SER	L	80	91.861	126.872	128.992	1.00	60.37
ATOM	20412	C	SER	L	80	90.497	126.527	128.399	1.00	62.30
ATOM	20413	O	SER	L	80	90.231	125.373	128.035	1.00	63.44
ATOM	20414	CB	SER	L	80	92.695	127.619	127.959	1.00	59.74
ATOM	20415	OG	SER	L	80	93.720	128.371	128.587	1.00	61.78
ATOM	20416	N	SER	L	81	89.638	127.543	128.317	1.00	62.74
ATOM	20417	CA	SER	L	81	88.285	127.406	127.782	1.00	62.41
ATOM	20418	C	SER	L	81	88.109	128.356	126.607	1.00	61.27
ATOM	20419	O	SER	L	81	88.615	129.483	126.617	1.00	60.88
ATOM	20420	CB	SER	L	81	87.259	127.751	128.858	1.00	63.90
ATOM	20421	OG	SER	L	81	87.644	127.215	130.112	1.00	71.04
ATOM	20422	N	TYR	L	82	87.391	127.900	125.591	1.00	60.25
ATOM	20423	CA	TYR	L	82	87.154	128.725	124.418	1.00	59.40
ATOM	20424	C	TYR	L	82	85.665	128.627	124.035	1.00	58.87
ATOM	20425	O	TYR	L	82	84.997	127.635	124.335	1.00	58.17
ATOM	20426	CB	TYR	L	82	88.049	128.256	123.259	1.00	58.83
ATOM	20427	CG	TYR	L	82	89.533	128.144	123.595	1.00	60.38
ATOM	20428	CD1	TYR	L	82	90.031	127.071	124.348	1.00	61.53
ATOM	20429	CD2	TYR	L	82	90.441	129.102	123.149	1.00	60.50
ATOM	20430	CE1	TYR	L	82	91.404	126.957	124.644	1.00	57.45
ATOM	20431	CE2	TYR	L	82	91.806	128.998	123.436	1.00	61.27
ATOM	20432	CZ	TYR	L	82	92.281	127.927	124.181	1.00	60.16
ATOM	20433	OH	TYR	L	82	93.634	127.842	124.439	1.00	55.60
ATOM	20434	N	PRO	L	83	85.123	129.662	123.380	1.00	56.43
ATOM	20435	CA	PRO	L	83	83.712	129.628	122.988	1.00	53.98
ATOM	20436	C	PRO	L	83	83.373	128.409	122.123	1.00	54.80
ATOM	20437	O	PRO	L	83	84.077	128.104	121.160	1.00	56.24
ATOM	20438	CB	PRO	L	83	83.539	130.925	122.205	1.00	52.06
ATOM	20439	CG	PRO	L	83	84.586	131.824	122.763	1.00	53.88
ATOM	20440	CD	PRO	L	83	85.765	130.914	122.940	1.00	55.36
ATOM	20441	N	PHE	L	84	82.302	127.704	122.467	1.00	54.70
ATOM	20442	CA	PHE	L	84	81.867	126.553	121.676	1.00	53.77
ATOM	20443	C	PHE	L	84	80.441	126.841	121.230	1.00	54.66
ATOM	20444	O	PHE	L	84	79.599	127.186	122.057	1.00	54.23
ATOM	20445	CB	PHE	L	84	81.887	125.263	122.495	1.00	51.35
ATOM	20446	CG	PHE	L	84	81.150	124.131	121.837	1.00	48.81
ATOM	20447	CD1	PHE	L	84	81.622	123.567	120.659	1.00	48.87
ATOM	20448	CD2	PHE	L	84	79.946	123.676	122.358	1.00	47.98
ATOM	20449	CE1	PHE	L	84	80.902	122.563	120.001	1.00	50.04
ATOM	20450	CE2	PHE	L	84	79.214	122.675	121.710	1.00	47.89
ATOM	20451	CZ	PHE	L	84	79.692	122.117	120.526	1.00	47.25
ATOM	20452	N	PRO	L	85	80.140	126.705	119.924	1.00	56.40
ATOM	20453	CA	PRO	L	85	80.985	126.325	118.784	1.00	58.05
ATOM	20454	C	PRO	L	85	82.299	127.094	118.710	1.00	60.83
ATOM	20455	O	PRO	L	85	82.330	128.306	118.929	1.00	61.99
ATOM	20456	CB	PRO	L	85	80.096	126.625	117.586	1.00	54.87
ATOM	20457	CG	PRO	L	85	78.742	126.358	118.115	1.00	54.58
ATOM	20458	CD	PRO	L	85	78.780	127.024	119.456	1.00	54.92

ATOM	20459	N	THR	L	86	83.381	126.388	118.397	1.00	61.60
ATOM	20460	CA	THR	L	86	84.683	127.027	118.292	1.00	61.10
ATOM	20461	C	THR	L	86	84.694	127.984	117.105	1.00	59.77
ATOM	20462	O	THR	L	86	84.078	127.713	116.066	1.00	59.20
ATOM	20463	CB	THR	L	86	85.811	125.983	118.099	1.00	63.47
ATOM	20464	OG1	THR	L	86	85.596	125.251	116.885	1.00	62.52
ATOM	20465	CG2	THR	L	86	85.837	125.012	119.262	1.00	65.21
ATOM	20466	N	THR	L	87	85.381	129.110	117.272	1.00	56.71
ATOM	20467	CA	THR	L	87	85.489	130.101	116.213	1.00	54.22
ATOM	20468	C	THR	L	87	86.925	130.131	115.675	1.00	52.44
ATOM	20469	O	THR	L	87	87.251	130.929	114.808	1.00	49.09
ATOM	20470	CB	THR	L	87	85.080	131.517	116.723	1.00	55.31
ATOM	20471	OG1	THR	L	87	85.910	131.906	117.823	1.00	56.38
ATOM	20472	CG2	THR	L	87	83.633	131.527	117.177	1.00	51.96
ATOM	20473	N	SER	L	88	87.769	129.237	116.190	1.00	53.67
ATOM	20474	CA	SER	L	88	89.173	129.145	115.788	1.00	55.20
ATOM	20475	C	SER	L	88	89.788	127.803	116.182	1.00	56.40
ATOM	20476	O	SER	L	88	89.178	127.027	116.926	1.00	56.59
ATOM	20477	CB	SER	L	88	89.972	130.257	116.453	1.00	54.45
ATOM	20478	OG	SER	L	88	89.308	131.494	116.301	1.00	59.57
ATOM	20479	N	GLU	L	89	90.999	127.541	115.686	1.00	57.33
ATOM	20480	CA	GLU	L	89	91.716	126.299	115.996	1.00	58.03
ATOM	20481	C	GLU	L	89	92.585	126.520	117.224	1.00	57.34
ATOM	20482	O	GLU	L	89	93.506	127.325	117.192	1.00	58.11
ATOM	20483	CB	GLU	L	89	92.603	125.877	114.826	1.00	58.86
ATOM	20484	CG	GLU	L	89	93.509	124.700	115.155	1.00	62.54
ATOM	20485	CD	GLU	L	89	94.590	124.478	114.111	1.00	64.31
ATOM	20486	OE1	GLU	L	89	95.225	125.468	113.696	1.00	66.80
ATOM	20487	OE2	GLU	L	89	94.817	123.316	113.715	1.00	66.17
ATOM	20488	N	THR	L	90	92.296	125.799	118.302	1.00	58.49
ATOM	20489	CA	THR	L	90	93.037	125.956	119.555	1.00	59.89
ATOM	20490	C	THR	L	90	94.539	125.731	119.386	1.00	62.71
ATOM	20491	O	THR	L	90	94.991	125.298	118.321	1.00	64.10
ATOM	20492	CB	THR	L	90	92.498	124.995	120.647	1.00	57.28
ATOM	20493	OG1	THR	L	90	92.747	123.639	120.266	1.00	58.89
ATOM	20494	CG2	THR	L	90	91.007	125.186	120.833	1.00	55.41
ATOM	20495	N	PRO	L	91	95.335	126.044	120.430	1.00	64.49
ATOM	20496	CA	PRO	L	91	96.798	125.884	120.431	1.00	66.02
ATOM	20497	C	PRO	L	91	97.182	124.441	120.133	1.00	67.34
ATOM	20498	O	PRO	L	91	96.406	123.715	119.520	1.00	68.55
ATOM	20499	CB	PRO	L	91	97.187	126.293	121.848	1.00	66.06
ATOM	20500	CG	PRO	L	91	96.174	127.326	122.186	1.00	67.47
ATOM	20501	CD	PRO	L	91	94.890	126.718	121.664	1.00	65.80
ATOM	20502	N	ARG	L	92	98.371	124.018	120.559	1.00	69.47
ATOM	20503	CA	ARG	L	92	98.783	122.635	120.330	1.00	70.95
ATOM	20504	C	ARG	L	92	99.126	121.862	121.605	1.00	70.42
ATOM	20505	O	ARG	L	92	99.848	122.351	122.470	1.00	70.29
ATOM	20506	CB	ARG	L	92	99.971	122.570	119.363	1.00	72.16
ATOM	20507	CG	ARG	L	92	101.284	123.132	119.896	1.00	78.11
ATOM	20508	CD	ARG	L	92	102.456	122.676	119.013	1.00	84.12
ATOM	20509	NE	ARG	L	92	103.733	123.329	119.321	1.00	86.11
ATOM	20510	CZ	ARG	L	92	104.378	123.242	120.483	1.00	86.43
ATOM	20511	NH1	ARG	L	92	103.878	122.526	121.486	1.00	84.88
ATOM	20512	NH2	ARG	L	92	105.536	123.874	120.638	1.00	85.36
ATOM	20513	N	VAL	L	93	98.578	120.657	121.719	1.00	71.34
ATOM	20514	CA	VAL	L	93	98.854	119.780	122.853	1.00	73.55
ATOM	20515	C	VAL	L	93	99.803	118.709	122.308	1.00	75.06
ATOM	20516	O	VAL	L	93	99.437	117.937	121.418	1.00	75.03
ATOM	20517	CB	VAL	L	93	97.576	119.103	123.374	1.00	73.10
ATOM	20518	CG1	VAL	L	93	97.913	118.167	124.515	1.00	74.17
ATOM	20519	CG2	VAL	L	93	96.593	120.151	123.835	1.00	75.11
ATOM	20520	N	VAL	L	94	101.027	118.674	122.828	1.00	76.74

ATOM	20521	CA	VAL	L	94	102.011	117.716	122.350	1.00	76.74
ATOM	20522	C	VAL	L	94	101.647	116.295	122.716	1.00	78.55
ATOM	20523	O	VAL	L	94	101.259	116.007	123.844	1.00	78.73
ATOM	20524	CB	VAL	L	94	103.422	118.037	122.887	1.00	73.75
ATOM	20525	CG1	VAL	L	94	103.866	119.399	122.382	1.00	72.60
ATOM	20526	CG2	VAL	L	94	103.425	118.006	124.398	1.00	74.31
ATOM	20527	N	TYR	L	95	101.766	115.418	121.729	1.00	81.67
ATOM	20528	CA	TYR	L	95	101.474	113.999	121.872	1.00	85.19
ATOM	20529	C	TYR	L	95	102.700	113.205	121.421	1.00	86.35
ATOM	20530	O	TYR	L	95	103.188	113.394	120.308	1.00	88.05
ATOM	20531	CB	TYR	L	95	100.268	113.633	121.004	1.00	87.15
ATOM	20532	CG	TYR	L	95	98.937	113.738	121.715	1.00	90.53
ATOM	20533	CD1	TYR	L	95	98.574	114.893	122.405	1.00	91.81
ATOM	20534	CD2	TYR	L	95	98.041	112.667	121.707	1.00	92.81
ATOM	20535	CE1	TYR	L	95	97.347	114.976	123.076	1.00	93.66
ATOM	20536	CE2	TYR	L	95	96.818	112.738	122.369	1.00	92.80
ATOM	20537	CZ	TYR	L	95	96.476	113.889	123.052	1.00	94.39
ATOM	20538	OH	TYR	L	95	95.271	113.942	123.715	1.00	94.75
ATOM	20539	N	ASN	L	96	103.207	112.324	122.277	1.00	86.83
ATOM	20540	CA	ASN	L	96	104.376	111.531	121.911	1.00	86.97
ATOM	20541	C	ASN	L	96	104.704	110.399	122.881	1.00	87.21
ATOM	20542	O	ASN	L	96	105.602	110.515	123.719	1.00	86.97
ATOM	20543	CB	ASN	L	96	105.597	112.442	121.724	1.00	86.63
ATOM	20544	CG	ASN	L	96	105.742	113.468	122.830	1.00	86.54
ATOM	20545	OD1	ASN	L	96	106.697	114.245	122.844	1.00	85.81
ATOM	20546	ND2	ASN	L	96	104.795	113.480	123.762	1.00	87.28
ATOM	20547	N	SER	L	97	103.965	109.302	122.743	1.00	87.42
ATOM	20548	CA	SER	L	97	104.132	108.107	123.567	1.00	87.99
ATOM	20549	C	SER	L	97	103.270	107.013	122.963	1.00	87.39
ATOM	20550	O	SER	L	97	102.092	107.226	122.693	1.00	88.16
ATOM	20551	CB	SER	L	97	103.683	108.364	125.010	1.00	89.53
ATOM	20552	OG	SER	L	97	104.528	109.296	125.666	1.00	91.27
ATOM	20553	N	ARG	L	98	103.853	105.844	122.740	1.00	87.22
ATOM	20554	CA	ARG	L	98	103.100	104.739	122.169	1.00	88.21
ATOM	20555	C	ARG	L	98	101.877	104.499	123.042	1.00	88.89
ATOM	20556	O	ARG	L	98	100.856	103.996	122.578	1.00	88.55
ATOM	20557	CB	ARG	L	98	103.973	103.484	122.123	1.00	88.12
ATOM	20558	CG	ARG	L	98	105.246	103.665	121.310	1.00	88.72
ATOM	20559	CD	ARG	L	98	105.132	103.052	119.917	1.00	87.53
ATOM	20560	NE	ARG	L	98	106.143	103.560	118.985	1.00	85.71
ATOM	20561	CZ	ARG	L	98	107.451	103.616	119.229	1.00	83.66
ATOM	20562	NH1	ARG	L	98	107.945	103.199	120.386	1.00	82.69
ATOM	20563	NH2	ARG	L	98	108.273	104.094	118.308	1.00	83.44
ATOM	20564	N	THR	L	99	102.001	104.876	124.313	1.00	90.23
ATOM	20565	CA	THR	L	99	100.933	104.723	125.302	1.00	90.44
ATOM	20566	C	THR	L	99	99.835	105.752	125.029	1.00	91.15
ATOM	20567	O	THR	L	99	100.120	106.868	124.584	1.00	91.58
ATOM	20568	CB	THR	L	99	101.467	104.952	126.744	1.00	90.63
ATOM	20569	OG1	THR	L	99	102.594	104.099	126.992	1.00	89.10
ATOM	20570	CG2	THR	L	99	100.380	104.653	127.768	1.00	90.86
ATOM	20571	N	ASP	L	100	98.584	105.388	125.302	1.00	90.53
ATOM	20572	CA	ASP	L	100	97.479	106.312	125.067	1.00	89.64
ATOM	20573	C	ASP	L	100	97.396	107.454	126.068	1.00	90.17
ATOM	20574	O	ASP	L	100	97.961	107.405	127.160	1.00	90.25
ATOM	20575	CB	ASP	L	100	96.143	105.571	125.041	1.00	87.13
ATOM	20576	CG	ASP	L	100	95.929	104.801	123.755	1.00	85.88
ATOM	20577	OD1	ASP	L	100	96.074	105.395	122.667	1.00	84.96
ATOM	20578	OD2	ASP	L	100	95.608	103.601	123.833	1.00	85.39
ATOM	20579	N	LYS	L	101	96.676	108.489	125.669	1.00	90.96
ATOM	20580	CA	LYS	L	101	96.483	109.669	126.489	1.00	91.38
ATOM	20581	C	LYS	L	101	95.118	110.219	126.090	1.00	92.84
ATOM	20582	O	LYS	L	101	94.689	110.066	124.944	1.00	93.90

ATOM	20583	CB	LYS	L	101	97.586	110.685	126.189	1.00	88.92
ATOM	20584	CG	LYS	L	101	97.578	111.932	127.051	1.00	88.37
ATOM	20585	CD	LYS	L	101	98.781	112.809	126.714	1.00	87.07
ATOM	20586	CE	LYS	L	101	98.852	114.047	127.592	1.00	86.44
ATOM	20587	NZ	LYS	L	101	100.073	114.844	127.306	1.00	85.00
ATOM	20588	N	PRO	L	102	94.397	110.834	127.037	1.00	92.87
ATOM	20589	CA	PRO	L	102	93.083	111.374	126.682	1.00	90.44
ATOM	20590	C	PRO	L	102	93.232	112.664	125.886	1.00	88.54
ATOM	20591	O	PRO	L	102	94.242	113.364	126.006	1.00	86.89
ATOM	20592	CB	PRO	L	102	92.430	111.631	128.042	1.00	91.67
ATOM	20593	CG	PRO	L	102	93.153	110.697	128.977	1.00	93.12
ATOM	20594	CD	PRO	L	102	94.576	110.813	128.498	1.00	93.67
ATOM	20595	N	TRP	L	103	92.232	112.963	125.063	1.00	86.78
ATOM	20596	CA	TRP	L	103	92.225	114.197	124.284	1.00	83.99
ATOM	20597	C	TRP	L	103	91.521	115.181	125.202	1.00	82.42
ATOM	20598	O	TRP	L	103	90.303	115.146	125.347	1.00	83.48
ATOM	20599	CB	TRP	L	103	91.431	114.023	122.989	1.00	82.87
ATOM	20600	CG	TRP	L	103	91.617	115.144	122.015	1.00	81.73
ATOM	20601	CD1	TRP	L	103	92.768	115.835	121.778	1.00	80.87
ATOM	20602	CD2	TRP	L	103	90.649	115.644	121.078	1.00	81.95
ATOM	20603	NE1	TRP	L	103	92.582	116.729	120.751	1.00	81.97
ATOM	20604	CE2	TRP	L	103	91.290	116.632	120.303	1.00	82.02
ATOM	20605	CE3	TRP	L	103	89.303	115.349	120.817	1.00	82.32
ATOM	20606	CZ2	TRP	L	103	90.630	117.330	119.280	1.00	80.52
ATOM	20607	CZ3	TRP	L	103	88.648	116.046	119.795	1.00	80.92
ATOM	20608	CH2	TRP	L	103	89.316	117.023	119.044	1.00	78.42
ATOM	20609	N	PRO	L	104	92.287	116.064	125.845	1.00	80.01
ATOM	20610	CA	PRO	L	104	91.776	117.074	126.772	1.00	79.33
ATOM	20611	C	PRO	L	104	90.661	117.944	126.196	1.00	78.22
ATOM	20612	O	PRO	L	104	90.840	119.141	125.998	1.00	77.67
ATOM	20613	CB	PRO	L	104	93.023	117.881	127.104	1.00	80.80
ATOM	20614	CG	PRO	L	104	93.790	117.831	125.804	1.00	80.32
ATOM	20615	CD	PRO	L	104	93.672	116.372	125.451	1.00	80.20
ATOM	20616	N	VAL	L	105	89.507	117.346	125.940	1.00	78.06
ATOM	20617	CA	VAL	L	105	88.392	118.093	125.380	1.00	78.63
ATOM	20618	C	VAL	L	105	87.109	117.874	126.163	1.00	79.21
ATOM	20619	O	VAL	L	105	86.468	116.815	126.062	1.00	77.74
ATOM	20620	CB	VAL	L	105	88.135	117.707	123.911	1.00	78.38
ATOM	20621	CG1	VAL	L	105	86.970	118.515	123.363	1.00	75.71
ATOM	20622	CG2	VAL	L	105	89.388	117.942	123.086	1.00	77.72
ATOM	20623	N	ALA	L	106	86.737	118.890	126.939	1.00	78.43
ATOM	20624	CA	ALA	L	106	85.526	118.830	127.741	1.00	76.00
ATOM	20625	C	ALA	L	106	84.591	119.990	127.417	1.00	74.71
ATOM	20626	O	ALA	L	106	85.005	121.156	127.387	1.00	72.22
ATOM	20627	CB	ALA	L	106	85.878	118.828	129.220	1.00	77.22
ATOM	20628	N	LEU	L	107	83.329	119.639	127.169	1.00	73.42
ATOM	20629	CA	LEU	L	107	82.269	120.589	126.845	1.00	70.70
ATOM	20630	C	LEU	L	107	81.522	121.016	128.095	1.00	70.87
ATOM	20631	O	LEU	L	107	81.121	120.180	128.901	1.00	69.04
ATOM	20632	CB	LEU	L	107	81.281	119.948	125.875	1.00	67.96
ATOM	20633	CG	LEU	L	107	81.300	120.432	124.429	1.00	66.02
ATOM	20634	CD1	LEU	L	107	82.729	120.596	123.956	1.00	66.27
ATOM	20635	CD2	LEU	L	107	80.541	119.437	123.559	1.00	64.29
ATOM	20636	N	TYR	L	108	81.339	122.321	128.257	1.00	73.43
ATOM	20637	CA	TYR	L	108	80.625	122.842	129.418	1.00	76.40
ATOM	20638	C	TYR	L	108	79.412	123.690	129.039	1.00	75.67
ATOM	20639	O	TYR	L	108	79.420	124.921	129.164	1.00	75.36
ATOM	20640	CB	TYR	L	108	81.584	123.625	130.323	1.00	79.34
ATOM	20641	CG	TYR	L	108	82.607	122.724	130.968	1.00	84.12
ATOM	20642	CD1	TYR	L	108	83.534	122.043	130.194	1.00	86.96
ATOM	20643	CD2	TYR	L	108	82.604	122.495	132.345	1.00	86.22
ATOM	20644	CE1	TYR	L	108	84.428	121.151	130.763	1.00	90.97

ATOM	20645	CE2	TYR	L	108	83.502	121.598	132.930	1.00	88.57
ATOM	20646	CZ	TYR	L	108	84.412	120.926	132.126	1.00	90.34
ATOM	20647	OH	TYR	L	108	85.305	120.014	132.656	1.00	92.02
ATOM	20648	N	LEU	L	109	78.370	122.994	128.585	1.00	74.46
ATOM	20649	CA	LEU	L	109	77.103	123.592	128.173	1.00	73.82
ATOM	20650	C	LEU	L	109	76.267	123.982	129.397	1.00	72.90
ATOM	20651	O	LEU	L	109	76.579	123.593	130.522	1.00	73.10
ATOM	20652	CB	LEU	L	109	76.316	122.584	127.331	1.00	72.27
ATOM	20653	CG	LEU	L	109	77.085	121.728	126.317	1.00	71.26
ATOM	20654	CD1	LEU	L	109	76.133	120.716	125.700	1.00	68.68
ATOM	20655	CD2	LEU	L	109	77.715	122.599	125.239	1.00	69.09
ATOM	20656	N	THR	L	110	75.206	124.749	129.173	1.00	73.19
ATOM	20657	CA	THR	L	110	74.319	125.170	130.257	1.00	74.19
ATOM	20658	C	THR	L	110	72.921	125.474	129.713	1.00	74.36
ATOM	20659	O	THR	L	110	72.776	126.078	128.655	1.00	73.35
ATOM	20660	CB	THR	L	110	74.854	126.425	130.979	1.00	73.32
ATOM	20661	OG1	THR	L	110	76.238	126.242	131.307	1.00	71.12
ATOM	20662	CG2	THR	L	110	74.070	126.664	132.260	1.00	72.23
ATOM	20663	N	PRO	L	111	71.872	125.063	130.440	1.00	75.21
ATOM	20664	CA	PRO	L	111	70.488	125.295	130.007	1.00	74.38
ATOM	20665	C	PRO	L	111	70.074	126.769	129.960	1.00	72.94
ATOM	20666	O	PRO	L	111	70.540	127.583	130.766	1.00	71.27
ATOM	20667	CB	PRO	L	111	69.665	124.516	131.045	1.00	75.37
ATOM	20668	CG	PRO	L	111	70.630	123.507	131.604	1.00	73.98
ATOM	20669	CD	PRO	L	111	71.899	124.303	131.702	1.00	75.60
ATOM	20670	N	VAL	L	112	69.199	127.100	129.011	1.00	71.24
ATOM	20671	CA	VAL	L	112	68.682	128.460	128.882	1.00	70.09
ATOM	20672	C	VAL	L	112	67.173	128.435	129.110	1.00	69.94
ATOM	20673	O	VAL	L	112	66.501	127.480	128.720	1.00	67.01
ATOM	20674	CB	VAL	L	112	68.950	129.078	127.480	1.00	69.29
ATOM	20675	CG1	VAL	L	112	70.408	129.485	127.353	1.00	67.65
ATOM	20676	CG2	VAL	L	112	68.554	128.090	126.387	1.00	66.66
ATOM	20677	N	SER	L	113	66.656	129.483	129.748	1.00	70.53
ATOM	20678	CA	SER	L	113	65.227	129.603	130.024	1.00	71.52
ATOM	20679	C	SER	L	113	64.407	128.976	128.907	1.00	72.98
ATOM	20680	O	SER	L	113	63.537	128.149	129.157	1.00	73.85
ATOM	20681	CB	SER	L	113	64.839	131.075	130.170	1.00	70.89
ATOM	20682	OG	SER	L	113	65.496	131.668	131.276	1.00	68.98
ATOM	20683	N	SER	L	114	64.691	129.371	127.672	1.00	75.24
ATOM	20684	CA	SER	L	114	63.976	128.835	126.523	1.00	78.53
ATOM	20685	C	SER	L	114	64.281	127.356	126.331	1.00	83.11
ATOM	20686	O	SER	L	114	64.876	126.954	125.326	1.00	84.62
ATOM	20687	CB	SER	L	114	64.337	129.621	125.257	1.00	75.44
ATOM	20688	OG	SER	L	114	65.732	129.830	125.156	1.00	73.72
ATOM	20689	N	ALA	L	115	63.868	126.550	127.306	1.00	87.40
ATOM	20690	CA	ALA	L	115	64.083	125.103	127.270	1.00	91.92
ATOM	20691	C	ALA	L	115	62.931	124.380	127.973	1.00	93.96
ATOM	20692	O	ALA	L	115	62.583	124.711	129.108	1.00	94.18
ATOM	20693	CB	ALA	L	115	65.417	124.754	127.940	1.00	92.44
ATOM	20694	N	GLY	L	116	62.345	123.395	127.296	1.00	96.15
ATOM	20695	CA	GLY	L	116	61.235	122.657	127.877	1.00	99.08
ATOM	20696	C	GLY	L	116	61.638	121.524	128.806	1.00	100.73
ATOM	20697	O	GLY	L	116	61.522	121.633	130.031	1.00	100.52
ATOM	20698	N	GLY	L	117	62.101	120.427	128.216	1.00	101.72
ATOM	20699	CA	GLY	L	117	62.518	119.277	128.994	1.00	102.75
ATOM	20700	C	GLY	L	117	63.445	118.392	128.183	1.00	103.20
ATOM	20701	O	GLY	L	117	64.654	118.379	128.406	1.00	103.42
ATOM	20702	N	VAL	L	118	62.880	117.648	127.240	1.00	103.50
ATOM	20703	CA	VAL	L	118	63.680	116.774	126.396	1.00	104.26
ATOM	20704	C	VAL	L	118	64.466	117.644	125.420	1.00	105.24
ATOM	20705	O	VAL	L	118	64.148	117.702	124.230	1.00	106.32
ATOM	20706	CB	VAL	L	118	62.794	115.787	125.593	1.00	103.93

ATOM	20707	CG1	VAL	L	118	63.669	114.896	124.722	1.00103.95
ATOM	20708	CG2	VAL	L	118	61.957	114.935	126.539	1.00103.14
ATOM	20709	N	ALA	L	119	65.483	118.330	125.936	1.00105.55
ATOM	20710	CA	ALA	L	119	66.331	119.201	125.125	1.00104.34
ATOM	20711	C	ALA	L	119	67.099	118.374	124.091	1.00103.75
ATOM	20712	O	ALA	L	119	67.241	118.769	122.929	1.00102.97
ATOM	20713	CB	ALA	L	119	67.307	119.959	126.027	1.00102.59
ATOM	20714	N	ILE	L	120	67.580	117.214	124.524	1.00103.12
ATOM	20715	CA	ILE	L	120	68.335	116.323	123.655	1.00102.02
ATOM	20716	C	ILE	L	120	67.608	114.996	123.435	1.00101.53
ATOM	20717	O	ILE	L	120	67.149	114.366	124.386	1.00101.32
ATOM	20718	CB	ILE	L	120	69.743	116.039	124.251	1.00100.67
ATOM	20719	CG1	ILE	L	120	70.564	117.333	124.281	1.00 97.23
ATOM	20720	CG2	ILE	L	120	70.458	114.970	123.438	1.00100.80
ATOM	20721	CD1	ILE	L	120	71.978	117.148	124.768	1.00 93.09
ATOM	20722	N	LYS	L	121	67.503	114.586	122.175	1.00100.61
ATOM	20723	CA	LYS	L	121	66.855	113.327	121.826	1.00100.95
ATOM	20724	C	LYS	L	121	67.917	112.266	121.518	1.00101.63
ATOM	20725	O	LYS	L	121	68.776	112.474	120.655	1.00102.12
ATOM	20726	CB	LYS	L	121	65.945	113.509	120.603	1.00 99.85
ATOM	20727	CG	LYS	L	121	64.630	114.228	120.880	1.00101.07
ATOM	20728	CD	LYS	L	121	64.836	115.678	121.298	1.00100.98
ATOM	20729	CE	LYS	L	121	63.517	116.345	121.674	1.00 98.69
ATOM	20730	NZ	LYS	L	121	62.526	116.316	120.569	1.00 96.05
ATOM	20731	N	ALA	L	122	67.861	111.137	122.225	1.00100.16
ATOM	20732	CA	ALA	L	122	68.811	110.047	122.017	1.00 97.81
ATOM	20733	C	ALA	L	122	68.818	109.606	120.554	1.00 97.03
ATOM	20734	O	ALA	L	122	67.776	109.240	120.010	1.00 96.03
ATOM	20735	CB	ALA	L	122	68.449	108.873	122.902	1.00 95.94
ATOM	20736	N	GLY	L	123	69.992	109.645	119.922	1.00 96.76
ATOM	20737	CA	GLY	L	123	70.110	109.241	118.524	1.00 94.90
ATOM	20738	C	GLY	L	123	70.420	110.379	117.565	1.00 92.81
ATOM	20739	O	GLY	L	123	70.562	110.168	116.354	1.00 89.46
ATOM	20740	N	SER	L	124	70.520	111.588	118.120	1.00 92.13
ATOM	20741	CA	SER	L	124	70.815	112.792	117.350	1.00 90.84
ATOM	20742	C	SER	L	124	72.259	113.223	117.572	1.00 89.60
ATOM	20743	O	SER	L	124	72.842	112.968	118.630	1.00 90.09
ATOM	20744	CB	SER	L	124	69.877	113.937	117.757	1.00 91.90
ATOM	20745	OG	SER	L	124	70.130	114.380	119.082	1.00 92.93
ATOM	20746	N	LEU	L	125	72.824	113.876	116.563	1.00 87.58
ATOM	20747	CA	LEU	L	125	74.199	114.351	116.612	1.00 86.04
ATOM	20748	C	LEU	L	125	74.287	115.587	117.497	1.00 85.06
ATOM	20749	O	LEU	L	125	73.827	116.663	117.126	1.00 86.20
ATOM	20750	CB	LEU	L	125	74.682	114.667	115.194	1.00 86.40
ATOM	20751	CG	LEU	L	125	76.139	115.075	114.985	1.00 85.29
ATOM	20752	CD1	LEU	L	125	77.071	114.158	115.753	1.00 85.07
ATOM	20753	CD2	LEU	L	125	76.441	115.023	113.504	1.00 86.06
ATOM	20754	N	ILE	L	126	74.880	115.416	118.673	1.00 83.70
ATOM	20755	CA	ILE	L	126	75.031	116.489	119.652	1.00 82.07
ATOM	20756	C	ILE	L	126	76.077	117.527	119.249	1.00 80.99
ATOM	20757	O	ILE	L	126	75.874	118.737	119.406	1.00 80.95
ATOM	20758	CB	ILE	L	126	75.405	115.897	121.026	1.00 81.08
ATOM	20759	CG1	ILE	L	126	74.377	114.830	121.400	1.00 83.76
ATOM	20760	CG2	ILE	L	126	75.474	116.981	122.085	1.00 78.70
ATOM	20761	CD1	ILE	L	126	72.933	115.235	121.137	1.00 84.66
ATOM	20762	N	ALA	L	127	77.197	117.048	118.729	1.00 77.89
ATOM	20763	CA	ALA	L	127	78.260	117.937	118.315	1.00 75.42
ATOM	20764	C	ALA	L	127	79.186	117.241	117.334	1.00 73.57
ATOM	20765	O	ALA	L	127	79.017	116.064	117.020	1.00 74.56
ATOM	20766	CB	ALA	L	127	79.045	118.414	119.535	1.00 75.76
ATOM	20767	N	VAL	L	128	80.162	117.990	116.845	1.00 70.71
ATOM	20768	CA	VAL	L	128	81.136	117.475	115.903	1.00 68.08

ATOM	20769	C	VAL	L	128	82.460	118.169	116.213	1.00	68.76
ATOM	20770	O	VAL	L	128	82.685	119.317	115.809	1.00	68.76
ATOM	20771	CB	VAL	L	128	80.704	117.759	114.445	1.00	65.32
ATOM	20772	CG1	VAL	L	128	81.865	117.508	113.497	1.00	63.92
ATOM	20773	CG2	VAL	L	128	79.519	116.877	114.076	1.00	58.64
ATOM	20774	N	LEU	L	129	83.321	117.468	116.950	1.00	66.73
ATOM	20775	CA	LEU	L	129	84.619	117.998	117.335	1.00	65.41
ATOM	20776	C	LEU	L	129	85.709	117.504	116.398	1.00	66.02
ATOM	20777	O	LEU	L	129	85.983	116.308	116.347	1.00	67.97
ATOM	20778	CB	LEU	L	129	84.940	117.572	118.757	1.00	61.54
ATOM	20779	CG	LEU	L	129	83.855	117.968	119.751	1.00	61.26
ATOM	20780	CD1	LEU	L	129	84.215	117.412	121.110	1.00	60.32
ATOM	20781	CD2	LEU	L	129	83.697	119.482	119.795	1.00	60.21
ATOM	20782	N	ILE	L	130	86.329	118.429	115.664	1.00	65.09
ATOM	20783	CA	ILE	L	130	87.388	118.082	114.721	1.00	63.32
ATOM	20784	C	ILE	L	130	88.769	118.196	115.358	1.00	64.28
ATOM	20785	O	ILE	L	130	89.122	119.225	115.939	1.00	64.72
ATOM	20786	CB	ILE	L	130	87.360	118.985	113.476	1.00	63.03
ATOM	20787	CG1	ILE	L	130	86.047	118.814	112.704	1.00	65.42
ATOM	20788	CG2	ILE	L	130	88.513	118.634	112.576	1.00	62.09
ATOM	20789	CD1	ILE	L	130	84.834	119.458	113.365	1.00	70.79
ATOM	20790	N	LEU	L	131	89.545	117.124	115.238	1.00	63.52
ATOM	20791	CA	LEU	L	131	90.889	117.058	115.795	1.00	62.38
ATOM	20792	C	LEU	L	131	91.875	117.227	114.654	1.00	63.79
ATOM	20793	O	LEU	L	131	91.629	116.751	113.556	1.00	63.26
ATOM	20794	CB	LEU	L	131	91.082	115.703	116.487	1.00	60.23
ATOM	20795	CG	LEU	L	131	92.449	115.293	117.032	1.00	58.20
ATOM	20796	CD1	LEU	L	131	92.295	114.280	118.154	1.00	54.65
ATOM	20797	CD2	LEU	L	131	93.276	114.716	115.907	1.00	58.60
ATOM	20798	N	ARG	L	132	92.986	117.914	114.905	1.00	67.63
ATOM	20799	CA	ARG	L	132	93.987	118.125	113.860	1.00	69.79
ATOM	20800	C	ARG	L	132	95.391	117.758	114.331	1.00	70.45
ATOM	20801	O	ARG	L	132	95.887	118.320	115.310	1.00	71.46
ATOM	20802	CB	ARG	L	132	93.977	119.582	113.403	1.00	70.59
ATOM	20803	CG	ARG	L	132	94.716	119.803	112.096	1.00	71.99
ATOM	20804	CD	ARG	L	132	94.670	121.259	111.674	1.00	72.28
ATOM	20805	NE	ARG	L	132	94.898	121.417	110.243	1.00	73.40
ATOM	20806	CZ	ARG	L	132	94.865	122.581	109.609	1.00	72.64
ATOM	20807	NH1	ARG	L	132	94.615	123.690	110.288	1.00	71.40
ATOM	20808	NH2	ARG	L	132	95.069	122.631	108.299	1.00	72.87
ATOM	20809	N	ASN	L	133	96.030	116.825	113.629	1.00	70.16
ATOM	20810	CA	ASN	L	133	97.373	116.390	113.999	1.00	71.63
ATOM	20811	C	ASN	L	133	98.447	116.792	112.991	1.00	70.51
ATOM	20812	O	ASN	L	133	98.274	116.663	111.775	1.00	70.09
ATOM	20813	CB	ASN	L	133	97.403	114.867	114.229	1.00	74.50
ATOM	20814	CG	ASN	L	133	98.059	114.108	113.089	1.00	78.24
ATOM	20815	OD1	ASN	L	133	97.625	114.194	111.939	1.00	84.40
ATOM	20816	ND2	ASN	L	133	99.110	113.359	113.403	1.00	77.70
ATOM	20817	N	THR	L	134	99.557	117.290	113.526	1.00	68.69
ATOM	20818	CA	THR	L	134	100.690	117.728	112.728	1.00	67.58
ATOM	20819	C	THR	L	134	101.954	117.603	113.566	1.00	68.82
ATOM	20820	O	THR	L	134	102.136	118.320	114.548	1.00	70.88
ATOM	20821	CB	THR	L	134	100.541	119.190	112.293	1.00	64.42
ATOM	20822	OG1	THR	L	134	100.265	119.995	113.445	1.00	63.19
ATOM	20823	CG2	THR	L	134	99.422	119.332	111.278	1.00	60.49
ATOM	20824	N	ASN	L	135	102.823	116.686	113.156	1.00	69.29
ATOM	20825	CA	ASN	L	135	104.089	116.399	113.831	1.00	67.36
ATOM	20826	C	ASN	L	135	105.214	117.346	113.403	1.00	66.06
ATOM	20827	O	ASN	L	135	105.077	118.086	112.431	1.00	63.38
ATOM	20828	CB	ASN	L	135	104.511	114.968	113.505	1.00	65.04
ATOM	20829	CG	ASN	L	135	104.805	114.782	112.021	1.00	63.15
ATOM	20830	OD1	ASN	L	135	105.745	115.368	111.482	1.00	60.22

ATOM	20831	ND2	ASN	L	135	103.990	113.978	111.352	1.00	60.21
ATOM	20832	N	ASN	L	136	106.327	117.297	114.132	1.00	66.56
ATOM	20833	CA	ASN	L	136	107.481	118.125	113.818	1.00	68.64
ATOM	20834	C	ASN	L	136	108.494	117.301	113.029	1.00	72.06
ATOM	20835	O	ASN	L	136	109.704	117.454	113.195	1.00	72.61
ATOM	20836	CB	ASN	L	136	108.143	118.664	115.094	1.00	64.89
ATOM	20837	CG	ASN	L	136	108.898	117.594	115.871	1.00	62.23
ATOM	20838	OD1	ASN	L	136	109.783	117.905	116.675	1.00	56.37
ATOM	20839	ND2	ASN	L	136	108.547	116.331	115.645	1.00	60.89
ATOM	20840	N	TYR	L	137	107.991	116.415	112.178	1.00	75.43
ATOM	20841	CA	TYR	L	137	108.852	115.572	111.363	1.00	77.86
ATOM	20842	C	TYR	L	137	108.616	115.816	109.878	1.00	77.65
ATOM	20843	O	TYR	L	137	109.552	115.756	109.091	1.00	77.38
ATOM	20844	CB	TYR	L	137	108.619	114.096	111.690	1.00	81.04
ATOM	20845	CG	TYR	L	137	109.423	113.157	110.818	1.00	86.45
ATOM	20846	CD1	TYR	L	137	110.819	113.196	110.822	1.00	90.03
ATOM	20847	CD2	TYR	L	137	108.793	112.247	109.972	1.00	87.27
ATOM	20848	CE1	TYR	L	137	111.569	112.354	110.000	1.00	91.77
ATOM	20849	CE2	TYR	L	137	109.532	111.399	109.146	1.00	90.07
ATOM	20850	CZ	TYR	L	137	110.920	111.459	109.163	1.00	91.90
ATOM	20851	OH	TYR	L	137	111.661	110.647	108.331	1.00	93.18
ATOM	20852	N	ASN	L	138	107.366	116.086	109.502	1.00	78.70
ATOM	20853	CA	ASN	L	138	107.012	116.347	108.103	1.00	80.22
ATOM	20854	C	ASN	L	138	105.723	117.160	107.944	1.00	80.57
ATOM	20855	O	ASN	L	138	105.129	117.598	108.931	1.00	81.64
ATOM	20856	CB	ASN	L	138	106.886	115.032	107.331	1.00	81.20
ATOM	20857	CG	ASN	L	138	105.819	114.119	107.897	1.00	81.52
ATOM	20858	OD1	ASN	L	138	105.642	113.000	107.425	1.00	82.66
ATOM	20859	ND2	ASN	L	138	105.100	114.591	108.910	1.00	81.34
ATOM	20860	N	SER	L	139	105.291	117.354	106.699	1.00	80.46
ATOM	20861	CA	SER	L	139	104.085	118.130	106.422	1.00	81.29
ATOM	20862	C	SER	L	139	102.798	117.316	106.525	1.00	81.16
ATOM	20863	O	SER	L	139	101.866	117.498	105.738	1.00	78.60
ATOM	20864	CB	SER	L	139	104.175	118.782	105.034	1.00	81.71
ATOM	20865	OG	SER	L	139	104.187	117.808	104.006	1.00	81.26
ATOM	20866	N	ASP	L	140	102.749	116.419	107.504	1.00	83.31
ATOM	20867	CA	ASP	L	140	101.563	115.600	107.712	1.00	86.13
ATOM	20868	C	ASP	L	140	100.505	116.362	108.507	1.00	86.28
ATOM	20869	O	ASP	L	140	100.685	116.664	109.688	1.00	86.89
ATOM	20870	CB	ASP	L	140	101.915	114.302	108.448	1.00	89.11
ATOM	20871	CG	ASP	L	140	102.071	113.119	107.510	1.00	91.52
ATOM	20872	OD1	ASP	L	140	102.155	113.337	106.283	1.00	92.01
ATOM	20873	OD2	ASP	L	140	102.112	111.969	108.004	1.00	93.74
ATOM	20874	N	ASP	L	141	99.402	116.675	107.840	1.00	85.56
ATOM	20875	CA	ASP	L	141	98.297	117.389	108.458	1.00	84.04
ATOM	20876	C	ASP	L	141	97.075	116.511	108.254	1.00	83.64
ATOM	20877	O	ASP	L	141	96.572	116.388	107.137	1.00	83.76
ATOM	20878	CB	ASP	L	141	98.094	118.742	107.769	1.00	85.43
ATOM	20879	CG	ASP	L	141	96.934	119.535	108.350	1.00	85.88
ATOM	20880	OD1	ASP	L	141	95.809	118.992	108.439	1.00	85.96
ATOM	20881	OD2	ASP	L	141	97.146	120.713	108.706	1.00	85.62
ATOM	20882	N	PHE	L	142	96.606	115.888	109.328	1.00	82.49
ATOM	20883	CA	PHE	L	142	95.443	115.017	109.237	1.00	82.37
ATOM	20884	C	PHE	L	142	94.266	115.566	110.036	1.00	83.11
ATOM	20885	O	PHE	L	142	94.423	116.508	110.809	1.00	84.65
ATOM	20886	CB	PHE	L	142	95.822	113.609	109.712	1.00	79.53
ATOM	20887	CG	PHE	L	142	96.760	112.885	108.776	1.00	78.64
ATOM	20888	CD1	PHE	L	142	96.730	113.139	107.401	1.00	78.39
ATOM	20889	CD2	PHE	L	142	97.675	111.956	109.262	1.00	78.48
ATOM	20890	CE1	PHE	L	142	97.596	112.481	106.527	1.00	76.02
ATOM	20891	CE2	PHE	L	142	98.551	111.289	108.391	1.00	78.49
ATOM	20892	CZ	PHE	L	142	98.510	111.555	107.023	1.00	76.24

ATOM	20893	N	GLN	L	143	93.084	114.994	109.836	1.00	83.89
ATOM	20894	CA	GLN	L	143	91.910	115.451	110.561	1.00	84.35
ATOM	20895	C	GLN	L	143	91.001	114.352	111.089	1.00	83.94
ATOM	20896	O	GLN	L	143	89.984	114.028	110.475	1.00	85.32
ATOM	20897	CB	GLN	L	143	91.081	116.400	109.703	1.00	85.41
ATOM	20898	CG	GLN	L	143	91.678	117.779	109.562	1.00	90.30
ATOM	20899	CD	GLN	L	143	90.621	118.831	109.279	1.00	93.83
ATOM	20900	OE1	GLN	L	143	89.789	118.666	108.383	1.00	96.15
ATOM	20901	NE2	GLN	L	143	90.649	119.922	110.044	1.00	93.98
ATOM	20902	N	PHE	L	144	91.371	113.785	112.233	1.00	82.92
ATOM	20903	CA	PHE	L	144	90.567	112.748	112.869	1.00	81.13
ATOM	20904	C	PHE	L	144	89.267	113.427	113.305	1.00	79.62
ATOM	20905	O	PHE	L	144	89.300	114.394	114.067	1.00	79.72
ATOM	20906	CB	PHE	L	144	91.282	112.196	114.107	1.00	81.35
ATOM	20907	CG	PHE	L	144	92.630	111.589	113.821	1.00	82.86
ATOM	20908	CD1	PHE	L	144	93.654	112.351	113.262	1.00	82.92
ATOM	20909	CD2	PHE	L	144	92.885	110.260	114.140	1.00	82.82
ATOM	20910	CE1	PHE	L	144	94.907	111.795	113.025	1.00	81.91
ATOM	20911	CE2	PHE	L	144	94.132	109.697	113.906	1.00	83.34
ATOM	20912	CZ	PHE	L	144	95.146	110.466	113.348	1.00	82.83
ATOM	20913	N	VAL	L	145	88.127	112.935	112.826	1.00	77.35
ATOM	20914	CA	VAL	L	145	86.847	113.533	113.192	1.00	73.82
ATOM	20915	C	VAL	L	145	86.089	112.704	114.227	1.00	75.06
ATOM	20916	O	VAL	L	145	86.340	111.506	114.387	1.00	74.42
ATOM	20917	CB	VAL	L	145	85.949	113.720	111.962	1.00	69.99
ATOM	20918	CG1	VAL	L	145	84.689	114.463	112.354	1.00	64.46
ATOM	20919	CG2	VAL	L	145	86.704	114.467	110.883	1.00	65.63
ATOM	20920	N	TRP	L	146	85.170	113.359	114.931	1.00	75.14
ATOM	20921	CA	TRP	L	146	84.351	112.713	115.954	1.00	76.08
ATOM	20922	C	TRP	L	146	82.939	113.300	115.917	1.00	76.85
ATOM	20923	O	TRP	L	146	82.766	114.521	115.855	1.00	77.91
ATOM	20924	CB	TRP	L	146	84.936	112.940	117.357	1.00	76.03
ATOM	20925	CG	TRP	L	146	86.421	112.682	117.496	1.00	77.65
ATOM	20926	CD1	TRP	L	146	87.424	113.609	117.445	1.00	74.99
ATOM	20927	CD2	TRP	L	146	87.059	111.414	117.713	1.00	78.01
ATOM	20928	NE1	TRP	L	146	88.640	113.000	117.618	1.00	75.64
ATOM	20929	CE2	TRP	L	146	88.447	111.653	117.784	1.00	76.58
ATOM	20930	CE3	TRP	L	146	86.592	110.100	117.855	1.00	79.52
ATOM	20931	CZ2	TRP	L	146	89.375	110.626	117.991	1.00	76.88
ATOM	20932	CZ3	TRP	L	146	87.517	109.078	118.062	1.00	79.12
ATOM	20933	CH2	TRP	L	146	88.893	109.350	118.127	1.00	77.24
ATOM	20934	N	ASN	L	147	81.933	112.432	115.960	1.00	76.29
ATOM	20935	CA	ASN	L	147	80.541	112.868	115.945	1.00	74.87
ATOM	20936	C	ASN	L	147	79.875	112.500	117.268	1.00	73.95
ATOM	20937	O	ASN	L	147	79.517	111.353	117.499	1.00	74.36
ATOM	20938	CB	ASN	L	147	79.797	112.204	114.792	1.00	75.21
ATOM	20939	CG	ASN	L	147	80.497	112.394	113.470	1.00	77.13
ATOM	20940	OD1	ASN	L	147	80.750	113.519	113.045	1.00	77.24
ATOM	20941	ND2	ASN	L	147	80.816	111.290	112.809	1.00	81.95
ATOM	20942	N	ILE	L	148	79.704	113.483	118.136	1.00	73.43
ATOM	20943	CA	ILE	L	148	79.094	113.243	119.431	1.00	74.61
ATOM	20944	C	ILE	L	148	77.579	113.065	119.385	1.00	76.15
ATOM	20945	O	ILE	L	148	76.843	114.022	119.137	1.00	75.19
ATOM	20946	CB	ILE	L	148	79.426	114.390	120.403	1.00	74.36
ATOM	20947	CG1	ILE	L	148	80.891	114.301	120.832	1.00	74.72
ATOM	20948	CG2	ILE	L	148	78.517	114.324	121.622	1.00	73.33
ATOM	20949	CD1	ILE	L	148	81.881	114.258	119.689	1.00	77.06
ATOM	20950	N	TYR	L	149	77.125	111.834	119.635	1.00	78.27
ATOM	20951	CA	TYR	L	149	75.698	111.502	119.655	1.00	78.61
ATOM	20952	C	TYR	L	149	75.209	111.271	121.074	1.00	80.27
ATOM	20953	O	TYR	L	149	76.002	111.006	121.981	1.00	78.61
ATOM	20954	CB	TYR	L	149	75.410	110.245	118.844	1.00	74.72

ATOM	20955	CG	TYR	L	149	75.420	110.446	117.353	1.00	74.06
ATOM	20956	CD1	TYR	L	149	74.263	110.828	116.679	1.00	74.81
ATOM	20957	CD2	TYR	L	149	76.568	110.213	116.607	1.00	73.97
ATOM	20958	CE1	TYR	L	149	74.242	110.965	115.294	1.00	74.87
ATOM	20959	CE2	TYR	L	149	76.559	110.344	115.222	1.00	76.27
ATOM	20960	CZ	TYR	L	149	75.391	110.718	114.572	1.00	75.87
ATOM	20961	OH	TYR	L	149	75.369	110.822	113.200	1.00	77.77
ATOM	20962	N	ALA	L	150	73.895	111.361	121.257	1.00	84.28
ATOM	20963	CA	ALA	L	150	73.284	111.168	122.573	1.00	89.05
ATOM	20964	C	ALA	L	150	72.506	109.857	122.666	1.00	90.33
ATOM	20965	O	ALA	L	150	71.552	109.639	121.921	1.00	89.49
ATOM	20966	CB	ALA	L	150	72.360	112.339	122.898	1.00	89.59
ATOM	20967	N	ASN	L	151	72.919	108.989	123.585	1.00	92.64
ATOM	20968	CA	ASN	L	151	72.249	107.708	123.767	1.00	95.39
ATOM	20969	C	ASN	L	151	70.970	107.891	124.561	1.00	96.04
ATOM	20970	O	ASN	L	151	70.004	107.148	124.379	1.00	96.18
ATOM	20971	CB	ASN	L	151	73.167	106.716	124.486	1.00	95.64
ATOM	20972	CG	ASN	L	151	74.234	106.140	123.571	1.00	97.00
ATOM	20973	OD1	ASN	L	151	73.937	105.397	122.629	1.00	98.36
ATOM	20974	ND2	ASN	L	151	75.483	106.484	123.841	1.00	95.94
ATOM	20975	N	ASN	L	152	70.971	108.892	125.435	1.00	97.04
ATOM	20976	CA	ASN	L	152	69.811	109.183	126.267	1.00	97.46
ATOM	20977	C	ASN	L	152	69.121	110.476	125.854	1.00	97.93
ATOM	20978	O	ASN	L	152	69.257	110.943	124.719	1.00	97.36
ATOM	20979	CB	ASN	L	152	70.226	109.284	127.734	1.00	96.48
ATOM	20980	CG	ASN	L	152	71.143	110.459	127.995	1.00	96.28
ATOM	20981	OD1	ASN	L	152	72.225	110.557	127.416	1.00	95.70
ATOM	20982	ND2	ASN	L	152	70.714	111.362	128.869	1.00	95.53
ATOM	20983	N	ASP	L	153	68.378	111.044	126.797	1.00	98.31
ATOM	20984	CA	ASP	L	153	67.644	112.280	126.575	1.00	99.47
ATOM	20985	C	ASP	L	153	67.710	113.159	127.816	1.00	99.56
ATOM	20986	O	ASP	L	153	67.067	112.869	128.826	1.00	99.01
ATOM	20987	CB	ASP	L	153	66.176	111.977	126.243	1.00	99.95
ATOM	20988	CG	ASP	L	153	65.984	111.486	124.814	1.00	100.59
ATOM	20989	OD1	ASP	L	153	66.723	110.574	124.391	1.00	100.50
ATOM	20990	OD2	ASP	L	153	65.086	112.007	124.115	1.00	99.85
ATOM	20991	N	VAL	L	154	68.494	114.229	127.741	1.00	99.91
ATOM	20992	CA	VAL	L	154	68.613	115.148	128.865	1.00	100.36
ATOM	20993	C	VAL	L	154	67.268	115.839	129.048	1.00	100.41
ATOM	20994	O	VAL	L	154	66.486	115.973	128.104	1.00	99.26
ATOM	20995	CB	VAL	L	154	69.706	116.232	128.621	1.00	100.98
ATOM	20996	CG1	VAL	L	154	69.791	117.184	129.821	1.00	99.46
ATOM	20997	CG2	VAL	L	154	71.054	115.570	128.382	1.00	100.08
ATOM	20998	N	VAL	L	155	67.000	116.268	130.274	1.00	101.05
ATOM	20999	CA	VAL	L	155	65.754	116.944	130.576	1.00	101.40
ATOM	21000	C	VAL	L	155	66.030	118.275	131.258	1.00	102.04
ATOM	21001	O	VAL	L	155	66.914	118.386	132.109	1.00	100.94
ATOM	21002	CB	VAL	L	155	64.849	116.076	131.480	1.00	100.90
ATOM	21003	CG1	VAL	L	155	63.571	116.826	131.813	1.00	99.51
ATOM	21004	CG2	VAL	L	155	64.530	114.765	130.781	1.00	97.80
ATOM	21005	N	VAL	L	156	65.273	119.287	130.854	1.00	103.20
ATOM	21006	CA	VAL	L	156	65.404	120.619	131.415	1.00	105.04
ATOM	21007	C	VAL	L	156	64.168	120.875	132.269	1.00	106.23
ATOM	21008	O	VAL	L	156	63.197	121.486	131.815	1.00	105.99
ATOM	21009	CB	VAL	L	156	65.486	121.695	130.304	1.00	105.55
ATOM	21010	CG1	VAL	L	156	65.762	123.062	130.929	1.00	103.67
ATOM	21011	CG2	VAL	L	156	66.571	121.325	129.292	1.00	104.61
ATOM	21012	N	PRO	L	157	64.185	120.392	133.521	1.00	107.07
ATOM	21013	CA	PRO	L	157	63.075	120.558	134.456	1.00	107.11
ATOM	21014	C	PRO	L	157	62.359	121.896	134.350	1.00	107.41
ATOM	21015	O	PRO	L	157	62.906	122.938	134.717	1.00	106.77
ATOM	21016	CB	PRO	L	157	63.744	120.353	135.805	1.00	106.63

ATOM	21017	CG	PRO	L	157	64.689	119.244	135.497	1.00107.54
ATOM	21018	CD	PRO	L	157	65.296	119.670	134.167	1.00107.24
ATOM	21019	N	THR	L	158	61.136	121.849	133.827	1.00108.30
ATOM	21020	CA	THR	L	158	60.310	123.034	133.685	1.00109.01
ATOM	21021	C	THR	L	158	60.101	123.596	135.091	1.00111.33
ATOM	21022	O	THR	L	158	59.489	122.954	135.947	1.00111.94
ATOM	21023	CB	THR	L	158	58.951	122.687	133.036	1.00106.28
ATOM	21024	OG1	THR	L	158	58.112	123.846	133.030	1.00105.85
ATOM	21025	CG2	THR	L	158	58.261	121.574	133.798	1.00105.96
ATOM	21026	N	GLY	L	159	60.638	124.789	135.324	1.00113.77
ATOM	21027	CA	GLY	L	159	60.533	125.416	136.629	1.00116.87
ATOM	21028	C	GLY	L	159	59.295	126.258	136.859	1.00119.43
ATOM	21029	O	GLY	L	159	58.429	126.374	135.988	1.00118.95
ATOM	21030	N	GLY	L	160	59.228	126.858	138.045	1.00121.87
ATOM	21031	CA	GLY	L	160	58.094	127.686	138.417	1.00125.44
ATOM	21032	C	GLY	L	160	57.852	128.914	137.561	1.00127.58
ATOM	21033	O	GLY	L	160	58.789	129.511	137.026	1.00128.42
ATOM	21034	N	CYS	L	161	56.582	129.287	137.432	1.00129.24
ATOM	21035	CA	CYS	L	161	56.196	130.453	136.650	1.00130.58
ATOM	21036	C	CYS	L	161	56.451	131.686	137.493	1.00131.80
ATOM	21037	O	CYS	L	161	55.926	131.814	138.600	1.00131.37
ATOM	21038	CB	CYS	L	161	54.720	130.366	136.273	1.00130.18
ATOM	21039	SG	CYS	L	161	54.342	128.854	135.333	1.00130.34
ATOM	21040	N	ASP	L	162	57.272	132.587	136.968	1.00133.81
ATOM	21041	CA	ASP	L	162	57.611	133.803	137.683	1.00135.77
ATOM	21042	C	ASP	L	162	56.372	134.639	137.935	1.00137.06
ATOM	21043	O	ASP	L	162	55.878	135.334	137.044	1.00136.08
ATOM	21044	CB	ASP	L	162	58.648	134.612	136.897	1.00136.43
ATOM	21045	CG	ASP	L	162	59.129	135.845	137.652	1.00136.35
ATOM	21046	OD1	ASP	L	162	59.480	135.721	138.845	1.00136.03
ATOM	21047	OD2	ASP	L	162	59.168	136.936	137.048	1.00135.85
ATOM	21048	N	VAL	L	163	55.864	134.538	139.160	1.00138.91
ATOM	21049	CA	VAL	L	163	54.692	135.290	139.580	1.00140.51
ATOM	21050	C	VAL	L	163	55.217	136.614	140.118	1.00141.20
ATOM	21051	O	VAL	L	163	55.406	136.781	141.325	1.00141.00
ATOM	21052	CB	VAL	L	163	53.916	134.548	140.695	1.00140.50
ATOM	21053	CG1	VAL	L	163	52.711	135.370	141.132	1.00140.40
ATOM	21054	CG2	VAL	L	163	53.474	133.178	140.195	1.00140.23
ATOM	21055	N	SER	L	164	55.467	137.545	139.205	1.00142.03
ATOM	21056	CA	SER	L	164	55.993	138.850	139.569	1.00143.27
ATOM	21057	C	SER	L	164	54.946	139.815	140.104	1.00144.30
ATOM	21058	O	SER	L	164	53.979	140.154	139.418	1.00144.71
ATOM	21059	CB	SER	L	164	56.704	139.483	138.371	1.00142.96
ATOM	21060	OG	SER	L	164	57.905	138.794	138.077	1.00143.60
ATOM	21061	N	ALA	L	165	55.153	140.248	141.344	1.00144.77
ATOM	21062	CA	ALA	L	165	54.270	141.198	142.001	1.00144.98
ATOM	21063	C	ALA	L	165	55.053	142.503	142.092	1.00145.66
ATOM	21064	O	ALA	L	165	56.202	142.572	141.644	1.00145.82
ATOM	21065	CB	ALA	L	165	53.908	140.700	143.392	1.00144.56
ATOM	21066	N	ARG	L	166	54.447	143.537	142.667	1.00145.95
ATOM	21067	CA	ARG	L	166	55.136	144.818	142.794	1.00145.98
ATOM	21068	C	ARG	L	166	55.650	145.060	144.216	1.00146.87
ATOM	21069	O	ARG	L	166	56.862	145.130	144.438	1.00146.70
ATOM	21070	CB	ARG	L	166	54.215	145.964	142.359	1.00143.77
ATOM	21071	CG	ARG	L	166	53.573	145.754	140.998	1.00140.49
ATOM	21072	CD	ARG	L	166	54.584	145.341	139.943	1.00139.33
ATOM	21073	NE	ARG	L	166	53.950	144.971	138.679	1.00137.66
ATOM	21074	CZ	ARG	L	166	53.289	145.816	137.894	1.00136.68
ATOM	21075	NH1	ARG	L	166	53.170	147.091	138.239	1.00136.27
ATOM	21076	NH2	ARG	L	166	52.751	145.387	136.760	1.00135.44
ATOM	21077	N	ASP	L	167	54.737	145.178	145.176	1.00147.72
ATOM	21078	CA	ASP	L	167	55.131	145.418	146.561	1.00149.06

ATOM	21079	C	ASP	L	167	53.979	145.238	147.548	1.00150.17
ATOM	21080	O	ASP	L	167	53.778	144.154	148.100	1.00149.85
ATOM	21081	CB	ASP	L	167	55.704	146.835	146.698	1.00149.21
ATOM	21082	CG	ASP	L	167	56.184	147.145	148.107	1.00149.47
ATOM	21083	OD1	ASP	L	167	56.139	146.243	148.973	1.00149.27
ATOM	21084	OD2	ASP	L	167	56.609	148.295	148.348	1.00149.81
ATOM	21085	N	VAL	L	168	53.229	146.314	147.768	1.00151.57
ATOM	21086	CA	VAL	L	168	52.106	146.296	148.697	1.00152.77
ATOM	21087	C	VAL	L	168	51.074	147.362	148.322	1.00153.58
ATOM	21088	O	VAL	L	168	51.246	148.540	148.630	1.00153.70
ATOM	21089	CB	VAL	L	168	52.602	146.532	150.149	1.00153.11
ATOM	21090	CG1	VAL	L	168	53.507	147.754	150.204	1.00154.08
ATOM	21091	CG2	VAL	L	168	51.427	146.714	151.083	1.00152.59
ATOM	21092	N	THR	L	169	50.007	146.938	147.650	1.00154.99
ATOM	21093	CA	THR	L	169	48.947	147.852	147.228	1.00156.28
ATOM	21094	C	THR	L	169	48.511	148.732	148.393	1.00156.64
ATOM	21095	O	THR	L	169	47.847	148.269	149.321	1.00157.00
ATOM	21096	CB	THR	L	169	47.717	147.081	146.687	1.00156.98
ATOM	21097	OG1	THR	L	169	48.069	146.407	145.471	1.00157.69
ATOM	21098	CG2	THR	L	169	46.562	148.038	146.410	1.00157.54
ATOM	21099	N	VAL	L	170	48.887	150.006	148.328	1.00156.74
ATOM	21100	CA	VAL	L	170	48.563	150.972	149.373	1.00156.55
ATOM	21101	C	VAL	L	170	47.240	151.696	149.118	1.00156.85
ATOM	21102	O	VAL	L	170	47.229	152.888	148.811	1.00157.07
ATOM	21103	CB	VAL	L	170	49.685	152.025	149.498	1.00155.95
ATOM	21104	CG1	VAL	L	170	49.443	152.906	150.700	1.00154.86
ATOM	21105	CG2	VAL	L	170	51.029	151.337	149.602	1.00155.72
ATOM	21106	N	THR	L	171	46.129	150.977	149.251	1.00156.96
ATOM	21107	CA	THR	L	171	44.812	151.566	149.033	1.00157.41
ATOM	21108	C	THR	L	171	44.416	152.506	150.175	1.00157.85
ATOM	21109	O	THR	L	171	43.442	152.264	150.890	1.00157.70
ATOM	21110	CB	THR	L	171	43.733	150.467	148.862	1.00157.25
ATOM	21111	OG1	THR	L	171	42.429	151.063	148.859	1.00157.10
ATOM	21112	CG2	THR	L	171	43.830	149.443	149.980	1.00157.67
ATOM	21113	N	LEU	L	172	45.177	153.589	150.325	1.00158.51
ATOM	21114	CA	LEU	L	172	44.941	154.595	151.364	1.00159.41
ATOM	21115	C	LEU	L	172	43.596	155.325	151.238	1.00160.20
ATOM	21116	O	LEU	L	172	43.035	155.766	152.247	1.00160.33
ATOM	21117	CB	LEU	L	172	46.093	155.622	151.375	1.00158.96
ATOM	21118	CG	LEU	L	172	46.143	156.753	152.421	1.00157.91
ATOM	21119	CD1	LEU	L	172	47.543	157.348	152.460	1.00156.01
ATOM	21120	CD2	LEU	L	172	45.122	157.838	152.101	1.00156.99
ATOM	21121	N	PRO	L	173	43.060	155.470	150.007	1.00160.60
ATOM	21122	CA	PRO	L	173	41.775	156.170	149.902	1.00160.98
ATOM	21123	C	PRO	L	173	40.749	155.677	150.920	1.00161.41
ATOM	21124	O	PRO	L	173	40.754	154.508	151.309	1.00161.96
ATOM	21125	CB	PRO	L	173	41.352	155.908	148.452	1.00160.45
ATOM	21126	CG	PRO	L	173	42.082	154.642	148.090	1.00159.73
ATOM	21127	CD	PRO	L	173	43.429	154.889	148.705	1.00160.32
ATOM	21128	N	ASP	L	174	39.880	156.583	151.356	1.00161.46
ATOM	21129	CA	ASP	L	174	38.852	156.258	152.333	1.00161.34
ATOM	21130	C	ASP	L	174	38.056	155.016	151.957	1.00161.34
ATOM	21131	O	ASP	L	174	38.394	154.303	151.013	1.00161.10
ATOM	21132	CB	ASP	L	174	37.910	157.449	152.512	1.00161.79
ATOM	21133	CG	ASP	L	174	38.607	158.654	153.118	1.00162.79
ATOM	21134	OD1	ASP	L	174	39.636	159.095	152.559	1.00162.43
ATOM	21135	OD2	ASP	L	174	38.126	159.162	154.154	1.00163.83
ATOM	21136	N	TYR	L	175	36.989	154.769	152.707	1.00161.69
ATOM	21137	CA	TYR	L	175	36.130	153.610	152.492	1.00162.39
ATOM	21138	C	TYR	L	175	35.789	153.280	151.027	1.00162.23
ATOM	21139	O	TYR	L	175	35.862	152.118	150.617	1.00162.40
ATOM	21140	CB	TYR	L	175	34.841	153.776	153.313	1.00162.82

ATOM	21141	CG	TYR	L	175	33.898	152.591	153.246	1.00163.40
ATOM	21142	CD1	TYR	L	175	34.345	151.298	153.527	1.00163.29
ATOM	21143	CD2	TYR	L	175	32.557	152.764	152.900	1.00163.43
ATOM	21144	CE1	TYR	L	175	33.480	150.206	153.462	1.00162.63
ATOM	21145	CE2	TYR	L	175	31.684	151.680	152.834	1.00162.92
ATOM	21146	CZ	TYR	L	175	32.153	150.408	153.115	1.00162.73
ATOM	21147	OH	TYR	L	175	31.293	149.341	153.039	1.00162.75
ATOM	21148	N	PRO	L	176	35.417	154.291	150.218	1.00161.51
ATOM	21149	CA	PRO	L	176	35.079	154.018	148.814	1.00160.52
ATOM	21150	C	PRO	L	176	36.271	153.673	147.920	1.00160.18
ATOM	21151	O	PRO	L	176	36.093	153.185	146.803	1.00159.85
ATOM	21152	CB	PRO	L	176	34.391	155.305	148.379	1.00159.76
ATOM	21153	CG	PRO	L	176	35.155	156.341	149.141	1.00159.95
ATOM	21154	CD	PRO	L	176	35.250	155.724	150.523	1.00160.85
ATOM	21155	N	GLY	L	177	37.479	153.921	148.421	1.00159.74
ATOM	21156	CA	GLY	L	177	38.686	153.653	147.654	1.00158.82
ATOM	21157	C	GLY	L	177	38.964	152.207	147.273	1.00158.07
ATOM	21158	O	GLY	L	177	39.214	151.365	148.137	1.00157.42
ATOM	21159	N	SER	L	178	38.931	151.931	145.968	1.00157.51
ATOM	21160	CA	SER	L	178	39.191	150.593	145.429	1.00156.08
ATOM	21161	C	SER	L	178	40.047	150.680	144.154	1.00154.47
ATOM	21162	O	SER	L	178	39.544	150.989	143.070	1.00153.62
ATOM	21163	CB	SER	L	178	37.869	149.871	145.125	1.00156.61
ATOM	21164	OG	SER	L	178	37.133	150.530	144.108	1.00157.04
ATOM	21165	N	VAL	L	179	41.341	150.404	144.301	1.00152.92
ATOM	21166	CA	VAL	L	179	42.289	150.459	143.188	1.00150.78
ATOM	21167	C	VAL	L	179	42.668	149.066	142.692	1.00149.13
ATOM	21168	O	VAL	L	179	42.659	148.105	143.460	1.00149.58
ATOM	21169	CB	VAL	L	179	43.603	151.185	143.600	1.00150.86
ATOM	21170	CG1	VAL	L	179	43.309	152.626	143.995	1.00150.34
ATOM	21171	CG2	VAL	L	179	44.272	150.441	144.753	1.00149.42
ATOM	21172	N	PRO	L	180	43.001	148.939	141.396	1.00147.24
ATOM	21173	CA	PRO	L	180	43.387	147.640	140.836	1.00145.49
ATOM	21174	C	PRO	L	180	44.767	147.206	141.344	1.00143.89
ATOM	21175	O	PRO	L	180	45.701	148.009	141.408	1.00143.29
ATOM	21176	CB	PRO	L	180	43.356	147.895	139.329	1.00145.83
ATOM	21177	CG	PRO	L	180	43.724	149.339	139.229	1.00146.10
ATOM	21178	CD	PRO	L	180	42.907	149.958	140.337	1.00146.77
ATOM	21179	N	ILE	L	181	44.884	145.931	141.708	1.00142.11
ATOM	21180	CA	ILE	L	181	46.130	145.384	142.238	1.00140.13
ATOM	21181	C	ILE	L	181	47.081	144.869	141.164	1.00139.42
ATOM	21182	O	ILE	L	181	46.677	144.130	140.264	1.00139.91
ATOM	21183	CB	ILE	L	181	45.852	144.227	143.216	1.00139.05
ATOM	21184	CG1	ILE	L	181	44.862	144.680	144.289	1.00138.61
ATOM	21185	CG2	ILE	L	181	47.151	143.768	143.858	1.00138.35
ATOM	21186	CD1	ILE	L	181	44.380	143.566	145.188	1.00138.82
ATOM	21187	N	PRO	L	182	48.366	145.255	141.252	1.00138.30
ATOM	21188	CA	PRO	L	182	49.417	144.852	140.306	1.00137.25
ATOM	21189	C	PRO	L	182	49.834	143.381	140.458	1.00136.36
ATOM	21190	O	PRO	L	182	50.303	142.973	141.521	1.00135.46
ATOM	21191	CB	PRO	L	182	50.563	145.805	140.642	1.00137.13
ATOM	21192	CG	PRO	L	182	49.874	146.996	141.244	1.00137.20
ATOM	21193	CD	PRO	L	182	48.842	146.350	142.115	1.00137.23
ATOM	21194	N	LEU	L	183	49.676	142.597	139.390	1.00135.67
ATOM	21195	CA	LEU	L	183	50.031	141.176	139.416	1.00134.92
ATOM	21196	C	LEU	L	183	50.014	140.492	138.045	1.00134.34
ATOM	21197	O	LEU	L	183	49.030	140.580	137.314	1.00133.64
ATOM	21198	CB	LEU	L	183	49.089	140.427	140.362	1.00134.99
ATOM	21199	CG	LEU	L	183	49.471	140.383	141.843	1.00134.79
ATOM	21200	CD1	LEU	L	183	48.224	140.428	142.709	1.00134.86
ATOM	21201	CD2	LEU	L	183	50.284	139.127	142.113	1.00134.91
ATOM	21202	N	THR	L	184	51.111	139.808	137.717	1.00133.84

ATOM	21203	CA	THR	L	184	51.253	139.080	136.452	1.00132.88
ATOM	21204	C	THR	L	184	52.097	137.824	136.676	1.00132.78
ATOM	21205	O	THR	L	184	52.901	137.769	137.609	1.00132.58
ATOM	21206	CB	THR	L	184	51.952	139.935	135.369	1.00132.07
ATOM	21207	OG1	THR	L	184	53.249	140.331	135.831	1.00129.92
ATOM	21208	CG2	THR	L	184	51.135	141.169	135.048	1.00131.36
ATOM	21209	N	VAL	L	185	51.918	136.816	135.824	1.00132.08
ATOM	21210	CA	VAL	L	185	52.679	135.573	135.951	1.00131.55
ATOM	21211	C	VAL	L	185	53.062	134.995	134.589	1.00131.30
ATOM	21212	O	VAL	L	185	52.340	135.173	133.605	1.00130.78
ATOM	21213	CB	VAL	L	185	51.885	134.497	136.729	1.00131.35
ATOM	21214	CG1	VAL	L	185	51.506	135.016	138.104	1.00130.14
ATOM	21215	CG2	VAL	L	185	50.646	134.102	135.950	1.00131.78
ATOM	21216	N	TYR	L	186	54.198	134.298	134.542	1.00130.68
ATOM	21217	CA	TYR	L	186	54.685	133.696	133.303	1.00129.53
ATOM	21218	C	TYR	L	186	55.715	132.596	133.548	1.00128.25
ATOM	21219	O	TYR	L	186	56.336	132.543	134.608	1.00126.31
ATOM	21220	CB	TYR	L	186	55.277	134.780	132.396	1.00131.16
ATOM	21221	CG	TYR	L	186	56.079	135.823	133.140	1.00133.46
ATOM	21222	CD1	TYR	L	186	57.301	135.505	133.727	1.00134.56
ATOM	21223	CD2	TYR	L	186	55.599	137.126	133.282	1.00134.32
ATOM	21224	CE1	TYR	L	186	58.027	136.458	134.435	1.00135.34
ATOM	21225	CE2	TYR	L	186	56.316	138.087	133.993	1.00135.04
ATOM	21226	CZ	TYR	L	186	57.531	137.745	134.567	1.00135.70
ATOM	21227	OH	TYR	L	186	58.250	138.686	135.271	1.00136.60
ATOM	21228	N	CYS	L	187	55.883	131.725	132.553	1.00128.43
ATOM	21229	CA	CYS	L	187	56.822	130.600	132.627	1.00127.75
ATOM	21230	C	CYS	L	187	57.636	130.438	131.341	1.00125.77
ATOM	21231	O	CYS	L	187	57.134	130.681	130.239	1.00124.76
ATOM	21232	CB	CYS	L	187	56.069	129.283	132.876	1.00128.99
ATOM	21233	SG	CYS	L	187	54.335	129.465	133.397	1.00130.11
ATOM	21234	N	ALA	L	188	58.888	130.014	131.487	1.00123.89
ATOM	21235	CA	ALA	L	188	59.754	129.793	130.338	1.00122.64
ATOM	21236	C	ALA	L	188	58.973	128.909	129.373	1.00121.87
ATOM	21237	O	ALA	L	188	58.963	129.130	128.160	1.00120.78
ATOM	21238	CB	ALA	L	188	61.031	129.093	130.780	1.00122.90
ATOM	21239	N	LYS	L	189	58.314	127.906	129.942	1.00121.44
ATOM	21240	CA	LYS	L	189	57.495	126.972	129.183	1.00120.53
ATOM	21241	C	LYS	L	189	56.052	127.088	129.656	1.00119.73
ATOM	21242	O	LYS	L	189	55.748	126.904	130.837	1.00118.95
ATOM	21243	CB	LYS	L	189	57.993	125.538	129.378	1.00121.29
ATOM	21244	CG	LYS	L	189	59.299	125.232	128.664	1.00121.38
ATOM	21245	CD	LYS	L	189	59.127	125.229	127.149	1.00122.08
ATOM	21246	CE	LYS	L	189	58.223	124.090	126.692	1.00122.80
ATOM	21247	NZ	LYS	L	189	58.086	124.031	125.207	1.00123.35
ATOM	21248	N	SER	L	190	55.170	127.403	128.718	1.00119.28
ATOM	21249	CA	SER	L	190	53.756	127.558	129.009	1.00119.47
ATOM	21250	C	SER	L	190	53.141	126.286	129.573	1.00119.01
ATOM	21251	O	SER	L	190	53.050	125.273	128.882	1.00120.21
ATOM	21252	CB	SER	L	190	53.003	127.962	127.740	1.00120.08
ATOM	21253	OG	SER	L	190	51.611	128.082	127.983	1.00122.23
ATOM	21254	N	GLN	L	191	52.724	126.349	130.832	1.00117.51
ATOM	21255	CA	GLN	L	191	52.088	125.222	131.502	1.00115.92
ATOM	21256	C	GLN	L	191	50.770	125.732	132.073	1.00115.48
ATOM	21257	O	GLN	L	191	50.681	126.892	132.479	1.00117.33
ATOM	21258	CB	GLN	L	191	52.973	124.714	132.635	1.00115.63
ATOM	21259	CG	GLN	L	191	53.496	125.820	133.529	1.00115.76
ATOM	21260	CD	GLN	L	191	54.059	125.300	134.833	1.00116.07
ATOM	21261	OE1	GLN	L	191	53.316	124.841	135.704	1.00115.91
ATOM	21262	NE2	GLN	L	191	55.379	125.361	134.973	1.00115.57
ATOM	21263	N	ASN	L	192	49.743	124.889	132.102	1.00113.01
ATOM	21264	CA	ASN	L	192	48.459	125.323	132.638	1.00110.68

ATOM	21265	C	ASN	L	192	48.633	125.900	134.029	1.00110.27
ATOM	21266	O	ASN	L	192	49.265	125.282	134.882	1.00111.04
ATOM	21267	CB	ASN	L	192	47.479	124.161	132.702	1.00109.45
ATOM	21268	CG	ASN	L	192	46.794	123.914	131.388	1.00108.52
ATOM	21269	OD1	ASN	L	192	46.172	124.812	130.825	1.00107.06
ATOM	21270	ND2	ASN	L	192	46.896	122.689	130.886	1.00109.60
ATOM	21271	N	LEU	L	193	48.078	127.085	134.257	1.00109.37
ATOM	21272	CA	LEU	L	193	48.185	127.722	135.565	1.00109.54
ATOM	21273	C	LEU	L	193	46.857	127.837	136.312	1.00109.43
ATOM	21274	O	LEU	L	193	45.785	127.843	135.702	1.00110.41
ATOM	21275	CB	LEU	L	193	48.818	129.110	135.437	1.00109.14
ATOM	21276	CG	LEU	L	193	50.347	129.179	135.493	1.00109.03
ATOM	21277	CD1	LEU	L	193	50.783	130.634	135.484	1.00109.24
ATOM	21278	CD2	LEU	L	193	50.857	128.501	136.758	1.00109.48
ATOM	21279	N	GLY	L	194	46.951	127.920	137.639	1.00107.75
ATOM	21280	CA	GLY	L	194	45.780	128.039	138.487	1.00105.02
ATOM	21281	C	GLY	L	194	46.178	128.724	139.778	1.00104.44
ATOM	21282	O	GLY	L	194	47.330	128.619	140.195	1.00103.67
ATOM	21283	N	TYR	L	195	45.235	129.421	140.410	1.00105.02
ATOM	21284	CA	TYR	L	195	45.508	130.130	141.661	1.00105.08
ATOM	21285	C	TYR	L	195	44.272	130.294	142.549	1.00105.58
ATOM	21286	O	TYR	L	195	43.142	130.231	142.074	1.00103.93
ATOM	21287	CB	TYR	L	195	46.077	131.517	141.359	1.00104.37
ATOM	21288	CG	TYR	L	195	45.080	132.431	140.686	1.00103.80
ATOM	21289	CD1	TYR	L	195	44.708	132.234	139.355	1.00103.63
ATOM	21290	CD2	TYR	L	195	44.472	133.468	141.392	1.00103.45
ATOM	21291	CE1	TYR	L	195	43.752	133.047	138.744	1.00103.02
ATOM	21292	CE2	TYR	L	195	43.514	134.285	140.793	1.00103.37
ATOM	21293	CZ	TYR	L	195	43.158	134.070	139.469	1.00102.74
ATOM	21294	OH	TYR	L	195	42.212	134.879	138.875	1.00101.57
ATOM	21295	N	TYR	L	196	44.510	130.515	143.840	1.00107.79
ATOM	21296	CA	TYR	L	196	43.447	130.714	144.824	1.00110.86
ATOM	21297	C	TYR	L	196	44.003	131.551	145.976	1.00113.86
ATOM	21298	O	TYR	L	196	45.185	131.891	145.974	1.00114.69
ATOM	21299	CB	TYR	L	196	42.921	129.362	145.340	1.00110.31
ATOM	21300	CG	TYR	L	196	43.862	128.559	146.232	1.00109.45
ATOM	21301	CD1	TYR	L	196	44.133	128.961	147.544	1.00108.89
ATOM	21302	CD2	TYR	L	196	44.443	127.370	145.779	1.00108.92
ATOM	21303	CE1	TYR	L	196	44.952	128.200	148.384	1.00108.42
ATOM	21304	CE2	TYR	L	196	45.265	126.600	146.610	1.00108.22
ATOM	21305	CZ	TYR	L	196	45.513	127.021	147.911	1.00108.76
ATOM	21306	OH	TYR	L	196	46.309	126.264	148.742	1.00108.14
ATOM	21307	N	LEU	L	197	43.165	131.881	146.957	1.00116.80
ATOM	21308	CA	LEU	L	197	43.616	132.690	148.096	1.00119.61
ATOM	21309	C	LEU	L	197	43.466	131.959	149.434	1.00121.09
ATOM	21310	O	LEU	L	197	43.090	130.789	149.466	1.00121.68
ATOM	21311	CB	LEU	L	197	42.828	134.002	148.145	1.00119.66
ATOM	21312	CG	LEU	L	197	42.503	134.685	146.813	1.00120.33
ATOM	21313	CD1	LEU	L	197	41.863	136.033	147.104	1.00120.30
ATOM	21314	CD2	LEU	L	197	43.762	134.859	145.970	1.00120.38
ATOM	21315	N	SER	L	198	43.767	132.652	150.533	1.00122.79
ATOM	21316	CA	SER	L	198	43.653	132.081	151.879	1.00125.02
ATOM	21317	C	SER	L	198	44.286	132.974	152.946	1.00126.65
ATOM	21318	O	SER	L	198	45.448	133.367	152.828	1.00126.78
ATOM	21319	CB	SER	L	198	44.309	130.698	151.940	1.00125.01
ATOM	21320	OG	SER	L	198	45.711	130.792	151.769	1.00126.61
ATOM	21321	N	GLY	L	199	43.518	133.281	153.991	1.00128.62
ATOM	21322	CA	GLY	L	199	44.018	134.120	155.069	1.00130.72
ATOM	21323	C	GLY	L	199	43.107	134.174	156.288	1.00131.97
ATOM	21324	O	GLY	L	199	42.761	133.140	156.862	1.00131.28
ATOM	21325	N	THR	L	200	42.725	135.388	156.684	1.00133.76
ATOM	21326	CA	THR	L	200	41.852	135.606	157.839	1.00135.75

ATOM	21327	C	THR	L	200	40.558	136.297	157.408	1.00137.28
ATOM	21328	O	THR	L	200	40.352	137.483	157.687	1.00137.72
ATOM	21329	CB	THR	L	200	42.543	136.489	158.910	1.00135.87
ATOM	21330	OG1	THR	L	200	43.741	135.847	159.364	1.00136.73
ATOM	21331	CG2	THR	L	200	41.622	136.715	160.099	1.00134.95
ATOM	21332	N	THR	L	201	39.690	135.549	156.729	1.00138.68
ATOM	21333	CA	THR	L	201	38.414	136.080	156.251	1.00139.67
ATOM	21334	C	THR	L	201	37.509	136.439	157.433	1.00139.84
ATOM	21335	O	THR	L	201	37.748	135.996	158.557	1.00140.71
ATOM	21336	CB	THR	L	201	37.694	135.054	155.347	1.00140.05
ATOM	21337	OG1	THR	L	201	36.547	135.666	154.740	1.00140.10
ATOM	21338	CG2	THR	L	201	37.259	133.836	156.162	1.00140.30
ATOM	21339	N	ALA	L	202	36.470	137.232	157.178	1.00139.18
ATOM	21340	CA	ALA	L	202	35.560	137.652	158.238	1.00138.66
ATOM	21341	C	ALA	L	202	34.118	137.166	158.079	1.00138.65
ATOM	21342	O	ALA	L	202	33.558	136.559	158.992	1.00138.43
ATOM	21343	CB	ALA	L	202	35.583	139.168	158.354	1.00137.90
ATOM	21344	N	ASP	L	203	33.519	137.434	156.924	1.00138.40
ATOM	21345	CA	ASP	L	203	32.138	137.034	156.677	1.00138.52
ATOM	21346	C	ASP	L	203	31.933	135.523	156.689	1.00138.19
ATOM	21347	O	ASP	L	203	32.858	134.756	156.956	1.00137.13
ATOM	21348	CB	ASP	L	203	31.643	137.604	155.338	1.00140.11
ATOM	21349	CG	ASP	L	203	32.386	137.031	154.138	1.00140.78
ATOM	21350	OD1	ASP	L	203	33.380	136.302	154.343	1.00141.54
ATOM	21351	OD2	ASP	L	203	31.976	137.317	152.989	1.00140.43
ATOM	21352	N	ALA	L	204	30.701	135.112	156.399	1.00138.52
ATOM	21353	CA	ALA	L	204	30.330	133.703	156.355	1.00138.56
ATOM	21354	C	ALA	L	204	30.542	133.145	154.949	1.00138.41
ATOM	21355	O	ALA	L	204	30.725	131.940	154.771	1.00138.34
ATOM	21356	CB	ALA	L	204	28.874	133.539	156.769	1.00138.71
ATOM	21357	N	GLY	L	205	30.506	134.028	153.953	1.00138.13
ATOM	21358	CA	GLY	L	205	30.709	133.608	152.579	1.00138.00
ATOM	21359	C	GLY	L	205	32.189	133.543	152.272	1.00138.24
ATOM	21360	O	GLY	L	205	32.597	133.442	151.116	1.00137.97
ATOM	21361	N	ASN	L	206	32.994	133.601	153.330	1.00139.08
ATOM	21362	CA	ASN	L	206	34.450	133.556	153.236	1.00139.27
ATOM	21363	C	ASN	L	206	34.967	134.337	152.029	1.00138.31
ATOM	21364	O	ASN	L	206	35.407	133.757	151.037	1.00137.61
ATOM	21365	CB	ASN	L	206	34.932	132.100	153.179	1.00140.90
ATOM	21366	CG	ASN	L	206	36.437	131.973	153.370	1.00143.26
ATOM	21367	OD1	ASN	L	206	36.965	130.873	153.557	1.00145.03
ATOM	21368	ND2	ASN	L	206	37.135	133.102	153.317	1.00143.73
ATOM	21369	N	SER	L	207	34.905	135.661	152.126	1.00137.61
ATOM	21370	CA	SER	L	207	35.361	136.536	151.055	1.00137.00
ATOM	21371	C	SER	L	207	35.753	137.911	151.586	1.00137.39
ATOM	21372	O	SER	L	207	35.839	138.867	150.822	1.00137.76
ATOM	21373	CB	SER	L	207	34.264	136.701	150.000	1.00135.10
ATOM	21374	OG	SER	L	207	33.910	135.455	149.437	1.00132.16
ATOM	21375	N	ILE	L	208	35.989	138.017	152.891	1.00137.37
ATOM	21376	CA	ILE	L	208	36.368	139.301	153.475	1.00137.60
ATOM	21377	C	ILE	L	208	37.480	139.181	154.514	1.00137.39
ATOM	21378	O	ILE	L	208	37.217	139.075	155.714	1.00137.14
ATOM	21379	CB	ILE	L	208	35.146	140.006	154.121	1.00138.31
ATOM	21380	CG1	ILE	L	208	34.100	140.322	153.047	1.00137.88
ATOM	21381	CG2	ILE	L	208	35.584	141.295	154.813	1.00138.74
ATOM	21382	CD1	ILE	L	208	32.857	141.016	153.576	1.00138.32
ATOM	21383	N	PHE	L	209	38.724	139.205	154.041	1.00137.06
ATOM	21384	CA	PHE	L	209	39.883	139.110	154.921	1.00136.29
ATOM	21385	C	PHE	L	209	40.086	140.485	155.555	1.00136.70
ATOM	21386	O	PHE	L	209	40.692	141.376	154.956	1.00137.00
ATOM	21387	CB	PHE	L	209	41.133	138.703	154.127	1.00134.47
ATOM	21388	CG	PHE	L	209	40.877	137.656	153.064	1.00132.37

ATOM	21389	CD1	PHE	L	209	40.419	138.022	151.798	1.00131.18
ATOM	21390	CD2	PHE	L	209	41.104	136.308	153.325	1.00131.18
ATOM	21391	CE1	PHE	L	209	40.192	137.065	150.809	1.00129.46
ATOM	21392	CE2	PHE	L	209	40.880	135.345	152.344	1.00130.54
ATOM	21393	CZ	PHE	L	209	40.423	135.726	151.082	1.00129.61
ATOM	21394	N	THR	L	210	39.564	140.644	156.768	1.00137.12
ATOM	21395	CA	THR	L	210	39.637	141.901	157.511	1.00137.59
ATOM	21396	C	THR	L	210	41.001	142.593	157.598	1.00138.33
ATOM	21397	O	THR	L	210	41.993	142.144	157.021	1.00138.56
ATOM	21398	CB	THR	L	210	39.114	141.703	158.942	1.00136.70
ATOM	21399	OG1	THR	L	210	38.905	140.306	159.179	1.00135.39
ATOM	21400	CG2	THR	L	210	37.814	142.455	159.146	1.00135.27
ATOM	21401	N	ASN	L	211	41.017	143.698	158.338	1.00138.86
ATOM	21402	CA	ASN	L	211	42.206	144.519	158.554	1.00139.70
ATOM	21403	C	ASN	L	211	43.267	143.791	159.387	1.00140.28
ATOM	21404	O	ASN	L	211	43.066	143.534	160.576	1.00140.70
ATOM	21405	CB	ASN	L	211	41.787	145.821	159.254	1.00139.93
ATOM	21406	CG	ASN	L	211	42.940	146.785	159.457	1.00139.92
ATOM	21407	OD1	ASN	L	211	42.775	147.846	160.062	1.00139.68
ATOM	21408	ND2	ASN	L	211	44.113	146.426	158.949	1.00140.57
ATOM	21409	N	THR	L	212	44.398	143.474	158.761	1.00140.43
ATOM	21410	CA	THR	L	212	45.486	142.776	159.439	1.00140.05
ATOM	21411	C	THR	L	212	46.449	143.758	160.099	1.00140.84
ATOM	21412	O	THR	L	212	47.637	143.473	160.246	1.00140.74
ATOM	21413	CB	THR	L	212	46.277	141.901	158.452	1.00139.19
ATOM	21414	OG1	THR	L	212	45.364	141.230	157.576	1.00139.11
ATOM	21415	CG2	THR	L	212	47.093	140.856	159.201	1.00138.22
ATOM	21416	N	ALA	L	213	45.933	144.916	160.496	1.00142.29
ATOM	21417	CA	ALA	L	213	46.753	145.937	161.139	1.00143.99
ATOM	21418	C	ALA	L	213	46.408	146.066	162.617	1.00145.45
ATOM	21419	O	ALA	L	213	45.258	146.334	162.976	1.00145.31
ATOM	21420	CB	ALA	L	213	46.563	147.279	160.446	1.00143.31
ATOM	21421	N	SER	L	214	47.413	145.870	163.466	1.00146.92
ATOM	21422	CA	SER	L	214	47.239	145.977	164.912	1.00148.42
ATOM	21423	C	SER	L	214	47.215	147.458	165.289	1.00149.76
ATOM	21424	O	SER	L	214	47.683	147.849	166.361	1.00149.90
ATOM	21425	CB	SER	L	214	48.392	145.272	165.634	1.00147.95
ATOM	21426	OG	SER	L	214	48.268	145.385	167.041	1.00146.44
ATOM	21427	N	PHE	L	215	46.661	148.269	164.389	1.00150.94
ATOM	21428	CA	PHE	L	215	46.562	149.715	164.570	1.00151.83
ATOM	21429	C	PHE	L	215	45.335	150.128	165.380	1.00153.24
ATOM	21430	O	PHE	L	215	45.254	151.257	165.871	1.00153.46
ATOM	21431	CB	PHE	L	215	46.537	150.396	163.197	1.00150.06
ATOM	21432	CG	PHE	L	215	46.414	151.890	163.257	1.00148.12
ATOM	21433	CD1	PHE	L	215	47.544	152.685	163.408	1.00147.16
ATOM	21434	CD2	PHE	L	215	45.171	152.505	163.160	1.00146.91
ATOM	21435	CE1	PHE	L	215	47.442	154.067	163.456	1.00146.17
ATOM	21436	CE2	PHE	L	215	45.058	153.889	163.207	1.00146.37
ATOM	21437	CZ	PHE	L	215	46.197	154.671	163.356	1.00145.89
ATOM	21438	N	SER	L	216	44.388	149.203	165.520	1.00154.89
ATOM	21439	CA	SER	L	216	43.158	149.454	166.267	1.00155.83
ATOM	21440	C	SER	L	216	42.357	150.620	165.663	1.00156.73
ATOM	21441	O	SER	L	216	41.870	151.488	166.387	1.00157.54
ATOM	21442	CB	SER	L	216	43.501	149.744	167.735	1.00154.86
ATOM	21443	OG	SER	L	216	42.339	149.982	168.506	1.00154.10
ATOM	21444	N	PRO	L	217	42.205	150.647	164.323	1.00156.98
ATOM	21445	CA	PRO	L	217	41.460	151.717	163.652	1.00156.32
ATOM	21446	C	PRO	L	217	39.944	151.621	163.837	1.00155.64
ATOM	21447	O	PRO	L	217	39.455	151.477	164.955	1.00156.11
ATOM	21448	CB	PRO	L	217	41.878	151.554	162.197	1.00156.76
ATOM	21449	CG	PRO	L	217	41.995	150.073	162.069	1.00157.62
ATOM	21450	CD	PRO	L	217	42.747	149.697	163.332	1.00157.67

ATOM	21451	N	ALA	L	218	39.206	151.701	162.735	1.00154.81
ATOM	21452	CA	ALA	L	218	37.749	151.634	162.774	1.00154.18
ATOM	21453	C	ALA	L	218	37.242	150.204	162.931	1.00154.15
ATOM	21454	O	ALA	L	218	37.970	149.320	163.385	1.00153.97
ATOM	21455	CB	ALA	L	218	37.171	152.252	161.507	1.00153.76
ATOM	21456	N	GLN	L	219	35.983	149.992	162.551	1.00154.14
ATOM	21457	CA	GLN	L	219	35.342	148.681	162.630	1.00153.64
ATOM	21458	C	GLN	L	219	34.635	148.345	161.315	1.00153.22
ATOM	21459	O	GLN	L	219	34.477	149.208	160.450	1.00153.48
ATOM	21460	CB	GLN	L	219	34.324	148.653	163.776	1.00153.86
ATOM	21461	CG	GLN	L	219	34.935	148.680	165.171	1.00153.23
ATOM	21462	CD	GLN	L	219	33.889	148.639	166.271	1.00152.61
ATOM	21463	OE1	GLN	L	219	34.216	148.474	167.446	1.00152.17
ATOM	21464	NE2	GLN	L	219	32.623	148.794	165.895	1.00152.46
ATOM	21465	N	GLY	L	220	34.211	147.090	161.176	1.00152.53
ATOM	21466	CA	GLY	L	220	33.527	146.664	159.967	1.00150.99
ATOM	21467	C	GLY	L	220	34.282	147.028	158.702	1.00150.18
ATOM	21468	O	GLY	L	220	33.742	147.710	157.827	1.00149.41
ATOM	21469	N	VAL	L	221	35.532	146.576	158.609	1.00149.42
ATOM	21470	CA	VAL	L	221	36.377	146.850	157.449	1.00148.79
ATOM	21471	C	VAL	L	221	37.261	145.663	157.085	1.00148.33
ATOM	21472	O	VAL	L	221	37.892	145.057	157.951	1.00148.16
ATOM	21473	CB	VAL	L	221	37.295	148.070	157.691	1.00148.84
ATOM	21474	CG1	VAL	L	221	38.199	148.293	156.479	1.00148.43
ATOM	21475	CG2	VAL	L	221	36.455	149.308	157.960	1.00149.38
ATOM	21476	N	GLY	L	222	37.304	145.349	155.792	1.00148.26
ATOM	21477	CA	GLY	L	222	38.111	144.244	155.302	1.00147.70
ATOM	21478	C	GLY	L	222	38.352	144.349	153.803	1.00147.19
ATOM	21479	O	GLY	L	222	38.134	145.409	153.207	1.00147.22
ATOM	21480	N	VAL	L	223	38.798	143.256	153.188	1.00145.95
ATOM	21481	CA	VAL	L	223	39.063	143.240	151.751	1.00144.32
ATOM	21482	C	VAL	L	223	38.298	142.099	151.082	1.00142.71
ATOM	21483	O	VAL	L	223	38.126	141.035	151.671	1.00142.23
ATOM	21484	CB	VAL	L	223	40.574	143.062	151.460	1.00144.78
ATOM	21485	CG1	VAL	L	223	40.838	143.214	149.969	1.00144.82
ATOM	21486	CG2	VAL	L	223	41.386	144.076	152.255	1.00144.50
ATOM	21487	N	GLN	L	224	37.844	142.326	149.853	1.00141.19
ATOM	21488	CA	GLN	L	224	37.099	141.313	149.111	1.00140.38
ATOM	21489	C	GLN	L	224	37.410	141.437	147.619	1.00139.87
ATOM	21490	O	GLN	L	224	36.576	141.879	146.828	1.00139.67
ATOM	21491	CB	GLN	L	224	35.593	141.479	149.371	1.00140.92
ATOM	21492	CG	GLN	L	224	34.709	140.353	148.829	1.00140.55
ATOM	21493	CD	GLN	L	224	33.357	140.273	149.531	1.00139.60
ATOM	21494	OE1	GLN	L	224	32.547	139.390	149.246	1.00138.90
ATOM	21495	NE2	GLN	L	224	33.114	141.194	150.456	1.00138.72
ATOM	21496	N	LEU	L	225	38.627	141.035	147.257	1.00139.53
ATOM	21497	CA	LEU	L	225	39.128	141.089	145.882	1.00139.00
ATOM	21498	C	LEU	L	225	38.089	140.804	144.800	1.00138.61
ATOM	21499	O	LEU	L	225	37.066	140.167	145.053	1.00138.41
ATOM	21500	CB	LEU	L	225	40.298	140.112	145.715	1.00138.26
ATOM	21501	CG	LEU	L	225	41.459	140.221	146.706	1.00137.41
ATOM	21502	CD1	LEU	L	225	42.517	139.193	146.357	1.00136.87
ATOM	21503	CD2	LEU	L	225	42.049	141.619	146.667	1.00136.04
ATOM	21504	N	THR	L	226	38.368	141.285	143.591	1.00138.10
ATOM	21505	CA	THR	L	226	37.481	141.077	142.452	1.00138.01
ATOM	21506	C	THR	L	226	38.280	140.943	141.161	1.00138.06
ATOM	21507	O	THR	L	226	39.349	141.538	141.016	1.00138.12
ATOM	21508	CB	THR	L	226	36.468	142.232	142.283	1.00138.32
ATOM	21509	OG1	THR	L	226	35.619	141.960	141.158	1.00136.71
ATOM	21510	CG2	THR	L	226	37.188	143.549	142.055	1.00138.65
ATOM	21511	N	ARG	L	227	37.747	140.162	140.225	1.00137.71
ATOM	21512	CA	ARG	L	227	38.402	139.927	138.944	1.00137.35

ATOM	21513	C	ARG	L	227	37.621	140.502	137.766	1.00136.67
ATOM	21514	O	ARG	L	227	36.792	139.818	137.162	1.00136.19
ATOM	21515	CB	ARG	L	227	38.639	138.419	138.746	1.00138.51
ATOM	21516	CG	ARG	L	227	37.545	137.497	139.316	1.00140.49
ATOM	21517	CD	ARG	L	227	37.880	136.007	139.100	1.00141.16
ATOM	21518	NE	ARG	L	227	36.861	135.089	139.625	1.00141.47
ATOM	21519	CZ	ARG	L	227	36.757	134.714	140.900	1.00141.37
ATOM	21520	NH1	ARG	L	227	37.612	135.169	141.803	1.00141.73
ATOM	21521	NH2	ARG	L	227	35.795	133.881	141.277	1.00140.25
ATOM	21522	N	ASN	L	228	37.900	141.767	137.450	1.00136.04
ATOM	21523	CA	ASN	L	228	37.247	142.481	136.349	1.00135.23
ATOM	21524	C	ASN	L	228	35.753	142.655	136.625	1.00134.87
ATOM	21525	O	ASN	L	228	35.108	143.563	136.094	1.00134.00
ATOM	21526	CB	ASN	L	228	37.449	141.721	135.028	1.00134.67
ATOM	21527	CG	ASN	L	228	37.012	142.526	133.808	1.00133.80
ATOM	21528	OD1	ASN	L	228	37.069	142.039	132.675	1.00132.37
ATOM	21529	ND2	ASN	L	228	36.581	143.763	134.035	1.00133.62
ATOM	21530	N	GLY	L	229	35.216	141.781	137.469	1.00134.41
ATOM	21531	CA	GLY	L	229	33.810	141.837	137.810	1.00133.42
ATOM	21532	C	GLY	L	229	33.347	140.537	138.437	1.00133.02
ATOM	21533	O	GLY	L	229	32.344	139.956	138.019	1.00133.39
ATOM	21534	N	THR	L	230	34.087	140.079	139.443	1.00132.02
ATOM	21535	CA	THR	L	230	33.766	138.844	140.151	1.00131.00
ATOM	21536	C	THR	L	230	34.587	138.805	141.434	1.00130.46
ATOM	21537	O	THR	L	230	35.747	139.200	141.426	1.00130.64
ATOM	21538	CB	THR	L	230	34.121	137.603	139.306	1.00130.60
ATOM	21539	OG1	THR	L	230	33.428	137.652	138.051	1.00130.16
ATOM	21540	CG2	THR	L	230	33.733	136.332	140.049	1.00130.77
ATOM	21541	N	ILE	L	231	33.998	138.335	142.531	1.00129.97
ATOM	21542	CA	ILE	L	231	34.728	138.274	143.798	1.00128.95
ATOM	21543	C	ILE	L	231	35.504	136.968	144.009	1.00128.36
ATOM	21544	O	ILE	L	231	35.024	135.869	143.705	1.00126.91
ATOM	21545	CB	ILE	L	231	33.786	138.531	145.011	1.00128.41
ATOM	21546	CG1	ILE	L	231	33.386	140.011	145.043	1.00127.50
ATOM	21547	CG2	ILE	L	231	34.480	138.153	146.316	1.00127.54
ATOM	21548	CD1	ILE	L	231	32.578	140.418	146.256	1.00126.68
ATOM	21549	N	ILE	L	232	36.719	137.118	144.529	1.00127.78
ATOM	21550	CA	ILE	L	232	37.615	135.998	144.793	1.00127.20
ATOM	21551	C	ILE	L	232	37.601	135.635	146.285	1.00126.26
ATOM	21552	O	ILE	L	232	38.243	136.305	147.104	1.00127.14
ATOM	21553	CB	ILE	L	232	39.082	136.349	144.400	1.00127.88
ATOM	21554	CG1	ILE	L	232	39.102	137.247	143.160	1.00127.65
ATOM	21555	CG2	ILE	L	232	39.868	135.071	144.117	1.00128.11
ATOM	21556	CD1	ILE	L	232	40.486	137.735	142.779	1.00126.76
ATOM	21557	N	PRO	L	233	36.853	134.580	146.658	1.00124.21
ATOM	21558	CA	PRO	L	233	36.779	134.149	148.061	1.00121.43
ATOM	21559	C	PRO	L	233	37.972	133.269	148.468	1.00118.94
ATOM	21560	O	PRO	L	233	38.642	132.682	147.614	1.00118.48
ATOM	21561	CB	PRO	L	233	35.451	133.399	148.112	1.00121.45
ATOM	21562	CG	PRO	L	233	35.376	132.779	146.749	1.00121.90
ATOM	21563	CD	PRO	L	233	35.823	133.905	145.844	1.00123.08
ATOM	21564	N	ALA	L	234	38.236	133.183	149.768	1.00115.97
ATOM	21565	CA	ALA	L	234	39.342	132.369	150.264	1.00113.42
ATOM	21566	C	ALA	L	234	39.161	130.890	149.925	1.00111.79
ATOM	21567	O	ALA	L	234	38.127	130.294	150.234	1.00112.08
ATOM	21568	CB	ALA	L	234	39.485	132.533	151.779	1.00112.73
ATOM	21569	N	ASN	L	235	40.177	130.308	149.290	1.00109.10
ATOM	21570	CA	ASN	L	235	40.174	128.895	148.917	1.00105.13
ATOM	21571	C	ASN	L	235	39.347	128.618	147.665	1.00104.72
ATOM	21572	O	ASN	L	235	38.716	127.574	147.557	1.00105.29
ATOM	21573	CB	ASN	L	235	39.647	128.044	150.082	1.00100.83
ATOM	21574	CG	ASN	L	235	40.382	128.310	151.385	1.00 96.18

ATOM	21575	OD1	ASN	L	235	39.939	127.899	152.450	1.00	92.81
ATOM	21576	ND2	ASN	L	235	41.513	128.990	151.302	1.00	96.21
ATOM	21577	N	ASN	L	236	39.351	129.544	146.715	1.00	105.24
ATOM	21578	CA	ASN	L	236	38.583	129.348	145.491	1.00	106.62
ATOM	21579	C	ASN	L	236	39.461	129.451	144.255	1.00	105.99
ATOM	21580	O	ASN	L	236	39.498	130.483	143.591	1.00	105.64
ATOM	21581	CB	ASN	L	236	37.451	130.371	145.397	1.00	109.24
ATOM	21582	CG	ASN	L	236	36.563	130.143	144.188	1.00	111.57
ATOM	21583	OD1	ASN	L	236	35.922	129.098	144.066	1.00	112.51
ATOM	21584	ND2	ASN	L	236	36.525	131.119	143.283	1.00	113.02
ATOM	21585	N	THR	L	237	40.154	128.363	143.947	1.00	105.99
ATOM	21586	CA	THR	L	237	41.051	128.310	142.801	1.00	107.06
ATOM	21587	C	THR	L	237	40.372	128.645	141.474	1.00	108.06
ATOM	21588	O	THR	L	237	39.260	128.194	141.202	1.00	108.82
ATOM	21589	CB	THR	L	237	41.686	126.923	142.684	1.00	106.45
ATOM	21590	OG1	THR	L	237	42.207	126.534	143.959	1.00	106.56
ATOM	21591	CG2	THR	L	237	42.815	126.941	141.672	1.00	107.16
ATOM	21592	N	VAL	L	238	41.053	129.436	140.649	1.00	108.08
ATOM	21593	CA	VAL	L	238	40.522	129.826	139.348	1.00	106.96
ATOM	21594	C	VAL	L	238	41.510	129.391	138.279	1.00	106.03
ATOM	21595	O	VAL	L	238	42.711	129.315	138.537	1.00	105.22
ATOM	21596	CB	VAL	L	238	40.327	131.357	139.243	1.00	107.90
ATOM	21597	CG1	VAL	L	238	39.475	131.688	138.014	1.00	107.97
ATOM	21598	CG2	VAL	L	238	39.683	131.898	140.520	1.00	108.60
ATOM	21599	N	SER	L	239	41.005	129.115	137.080	1.00	105.50
ATOM	21600	CA	SER	L	239	41.850	128.679	135.970	1.00	105.58
ATOM	21601	C	SER	L	239	42.495	129.839	135.210	1.00	106.06
ATOM	21602	O	SER	L	239	42.067	130.989	135.320	1.00	106.37
ATOM	21603	CB	SER	L	239	41.039	127.825	134.992	1.00	104.33
ATOM	21604	OG	SER	L	239	41.853	127.358	133.928	1.00	104.43
ATOM	21605	N	LEU	L	240	43.533	129.522	134.440	1.00	106.43
ATOM	21606	CA	LEU	L	240	44.248	130.517	133.648	1.00	105.66
ATOM	21607	C	LEU	L	240	44.491	129.976	132.250	1.00	105.00
ATOM	21608	O	LEU	L	240	44.900	130.709	131.352	1.00	103.97
ATOM	21609	CB	LEU	L	240	45.587	130.860	134.302	1.00	106.00
ATOM	21610	CG	LEU	L	240	45.512	131.656	135.606	1.00	106.98
ATOM	21611	CD1	LEU	L	240	46.902	131.815	136.192	1.00	107.18
ATOM	21612	CD2	LEU	L	240	44.889	133.016	135.334	1.00	107.85
ATOM	21613	N	GLY	L	241	44.226	128.687	132.072	1.00	104.95
ATOM	21614	CA	GLY	L	241	44.435	128.065	130.780	1.00	105.54
ATOM	21615	C	GLY	L	241	45.918	127.920	130.507	1.00	106.45
ATOM	21616	O	GLY	L	241	46.652	127.325	131.303	1.00	107.38
ATOM	21617	N	ALA	L	242	46.366	128.470	129.382	1.00	106.52
ATOM	21618	CA	ALA	L	242	47.773	128.403	129.004	1.00	105.13
ATOM	21619	C	ALA	L	242	48.463	129.740	129.250	1.00	104.39
ATOM	21620	O	ALA	L	242	48.025	130.776	128.741	1.00	103.21
ATOM	21621	CB	ALA	L	242	47.903	128.009	127.536	1.00	104.31
ATOM	21622	N	VAL	L	243	49.534	129.697	130.044	1.00	104.17
ATOM	21623	CA	VAL	L	243	50.331	130.879	130.380	1.00	102.97
ATOM	21624	C	VAL	L	243	51.771	130.673	129.897	1.00	104.31
ATOM	21625	O	VAL	L	243	52.557	129.968	130.543	1.00	103.57
ATOM	21626	CB	VAL	L	243	50.361	131.125	131.899	1.00	99.84
ATOM	21627	CG1	VAL	L	243	50.962	132.484	132.190	1.00	96.97
ATOM	21628	CG2	VAL	L	243	48.966	131.021	132.468	1.00	100.62
ATOM	21629	N	GLY	L	244	52.104	131.290	128.759	1.00	105.19
ATOM	21630	CA	GLY	L	244	53.436	131.164	128.188	1.00	106.42
ATOM	21631	C	GLY	L	244	54.473	132.060	128.837	1.00	107.28
ATOM	21632	O	GLY	L	244	54.826	131.874	129.998	1.00	108.01
ATOM	21633	N	THR	L	245	54.972	133.029	128.080	1.00	107.48
ATOM	21634	CA	THR	L	245	55.967	133.960	128.595	1.00	107.83
ATOM	21635	C	THR	L	245	55.438	135.380	128.496	1.00	108.38
ATOM	21636	O	THR	L	245	55.943	136.287	129.162	1.00	108.07

ATOM	21637	CB	THR	L	245	57.278	133.858	127.807	1.00108.02
ATOM	21638	OG1	THR	L	245	57.000	133.935	126.403	1.00107.99
ATOM	21639	CG2	THR	L	245	57.972	132.543	128.113	1.00108.63
ATOM	21640	N	SER	L	246	54.415	135.558	127.660	1.00109.69
ATOM	21641	CA	SER	L	246	53.768	136.855	127.457	1.00110.16
ATOM	21642	C	SER	L	246	52.886	137.159	128.670	1.00111.22
ATOM	21643	O	SER	L	246	51.675	136.898	128.668	1.00110.76
ATOM	21644	CB	SER	L	246	52.916	136.832	126.186	1.00108.36
ATOM	21645	OG	SER	L	246	51.876	135.877	126.291	1.00107.21
ATOM	21646	N	ALA	L	247	53.524	137.711	129.698	1.00111.83
ATOM	21647	CA	ALA	L	247	52.891	138.065	130.963	1.00112.55
ATOM	21648	C	ALA	L	247	51.373	138.220	130.959	1.00113.26
ATOM	21649	O	ALA	L	247	50.790	138.844	130.072	1.00112.18
ATOM	21650	CB	ALA	L	247	53.532	139.331	131.515	1.00112.34
ATOM	21651	N	VAL	L	248	50.749	137.639	131.979	1.00114.93
ATOM	21652	CA	VAL	L	248	49.307	137.706	132.164	1.00115.89
ATOM	21653	C	VAL	L	248	49.067	138.274	133.565	1.00116.23
ATOM	21654	O	VAL	L	248	49.601	137.769	134.553	1.00113.65
ATOM	21655	CB	VAL	L	248	48.644	136.303	132.046	1.00116.38
ATOM	21656	CG1	VAL	L	248	47.136	136.417	132.228	1.00115.15
ATOM	21657	CG2	VAL	L	248	48.956	135.687	130.684	1.00116.61
ATOM	21658	N	SER	L	249	48.281	139.344	133.630	1.00118.02
ATOM	21659	CA	SER	L	249	47.959	140.004	134.890	1.00119.98
ATOM	21660	C	SER	L	249	46.730	139.364	135.526	1.00122.45
ATOM	21661	O	SER	L	249	45.752	139.069	134.834	1.00123.60
ATOM	21662	CB	SER	L	249	47.695	141.495	134.649	1.00118.77
ATOM	21663	OG	SER	L	249	47.367	142.164	135.855	1.00116.80
ATOM	21664	N	LEU	L	250	46.775	139.153	136.841	1.00123.74
ATOM	21665	CA	LEU	L	250	45.651	138.546	137.554	1.00124.58
ATOM	21666	C	LEU	L	250	44.413	139.441	137.584	1.00126.62
ATOM	21667	O	LEU	L	250	43.314	138.975	137.893	1.00126.93
ATOM	21668	CB	LEU	L	250	46.053	138.186	138.987	1.00121.64
ATOM	21669	CG	LEU	L	250	46.938	136.952	139.183	1.00119.77
ATOM	21670	CD1	LEU	L	250	47.177	136.728	140.670	1.00118.30
ATOM	21671	CD2	LEU	L	250	46.269	135.733	138.566	1.00118.03
ATOM	21672	N	GLY	L	251	44.593	140.719	137.257	1.00128.83
ATOM	21673	CA	GLY	L	251	43.477	141.648	137.258	1.00130.70
ATOM	21674	C	GLY	L	251	42.704	141.533	138.552	1.00132.08
ATOM	21675	O	GLY	L	251	41.723	140.794	138.640	1.00131.39
ATOM	21676	N	LEU	L	252	43.145	142.269	139.563	1.00134.20
ATOM	21677	CA	LEU	L	252	42.501	142.223	140.867	1.00136.93
ATOM	21678	C	LEU	L	252	42.202	143.621	141.412	1.00138.37
ATOM	21679	O	LEU	L	252	42.660	144.624	140.859	1.00138.90
ATOM	21680	CB	LEU	L	252	43.407	141.472	141.843	1.00137.70
ATOM	21681	CG	LEU	L	252	44.083	140.219	141.279	1.00138.33
ATOM	21682	CD1	LEU	L	252	44.988	139.605	142.340	1.00138.87
ATOM	21683	CD2	LEU	L	252	43.029	139.220	140.827	1.00139.28
ATOM	21684	N	THR	L	253	41.430	143.677	142.497	1.00139.30
ATOM	21685	CA	THR	L	253	41.078	144.944	143.134	1.00139.86
ATOM	21686	C	THR	L	253	40.991	144.774	144.653	1.00140.15
ATOM	21687	O	THR	L	253	40.455	143.780	145.143	1.00139.98
ATOM	21688	CB	THR	L	253	39.722	145.483	142.617	1.00139.91
ATOM	21689	OG1	THR	L	253	39.740	145.545	141.186	1.00139.92
ATOM	21690	CG2	THR	L	253	39.460	146.881	143.166	1.00139.49
ATOM	21691	N	ALA	L	254	41.527	145.745	145.390	1.00140.74
ATOM	21692	CA	ALA	L	254	41.507	145.714	146.851	1.00141.36
ATOM	21693	C	ALA	L	254	40.272	146.451	147.354	1.00141.56
ATOM	21694	O	ALA	L	254	40.365	147.569	147.862	1.00141.60
ATOM	21695	CB	ALA	L	254	42.773	146.364	147.412	1.00141.63
ATOM	21696	N	ASN	L	255	39.118	145.808	147.212	1.00141.75
ATOM	21697	CA	ASN	L	255	37.846	146.385	147.624	1.00142.41
ATOM	21698	C	ASN	L	255	37.614	146.326	149.128	1.00143.02

ATOM	21699	O	ASN	L	255	37.891	145.309	149.766	1.00142.91
ATOM	21700	CB	ASN	L	255	36.699	145.657	146.926	1.00142.62
ATOM	21701	CG	ASN	L	255	36.871	145.605	145.427	1.00143.26
ATOM	21702	OD1	ASN	L	255	36.864	146.635	144.754	1.00145.54
ATOM	21703	ND2	ASN	L	255	37.029	144.401	144.891	1.00142.81
ATOM	21704	N	TYR	L	256	37.107	147.422	149.687	1.00143.89
ATOM	21705	CA	TYR	L	256	36.797	147.477	151.111	1.00144.61
ATOM	21706	C	TYR	L	256	35.457	146.764	151.276	1.00144.57
ATOM	21707	O	TYR	L	256	34.598	146.831	150.395	1.00144.51
ATOM	21708	CB	TYR	L	256	36.650	148.926	151.603	1.00146.00
ATOM	21709	CG	TYR	L	256	37.943	149.697	151.824	1.00147.36
ATOM	21710	CD1	TYR	L	256	38.743	150.095	150.749	1.00147.46
ATOM	21711	CD2	TYR	L	256	38.346	150.062	153.115	1.00147.18
ATOM	21712	CE1	TYR	L	256	39.912	150.842	150.953	1.00146.30
ATOM	21713	CE2	TYR	L	256	39.511	150.806	153.327	1.00146.34
ATOM	21714	CZ	TYR	L	256	40.286	151.193	152.243	1.00145.91
ATOM	21715	OH	TYR	L	256	41.426	151.933	152.449	1.00143.84
ATOM	21716	N	ALA	L	257	35.284	146.079	152.400	1.00144.01
ATOM	21717	CA	ALA	L	257	34.045	145.364	152.676	1.00143.65
ATOM	21718	C	ALA	L	257	33.760	145.487	154.164	1.00143.57
ATOM	21719	O	ALA	L	257	34.686	145.509	154.973	1.00143.84
ATOM	21720	CB	ALA	L	257	34.183	143.899	152.282	1.00142.98
ATOM	21721	N	ARG	L	258	32.485	145.571	154.528	1.00143.28
ATOM	21722	CA	ARG	L	258	32.126	145.705	155.935	1.00142.76
ATOM	21723	C	ARG	L	258	31.920	144.375	156.644	1.00142.73
ATOM	21724	O	ARG	L	258	31.172	143.510	156.182	1.00141.92
ATOM	21725	CB	ARG	L	258	30.881	146.586	156.089	1.00142.07
ATOM	21726	CG	ARG	L	258	31.158	148.067	155.845	1.00140.50
ATOM	21727	CD	ARG	L	258	29.915	148.931	156.020	1.00137.68
ATOM	21728	NE	ARG	L	258	30.224	150.353	155.897	1.00133.77
ATOM	21729	CZ	ARG	L	258	29.354	151.329	156.124	1.00131.68
ATOM	21730	NH1	ARG	L	258	28.110	151.044	156.485	1.00130.34
ATOM	21731	NH2	ARG	L	258	29.730	152.592	155.994	1.00130.64
ATOM	21732	N	THR	L	259	32.610	144.228	157.771	1.00143.09
ATOM	21733	CA	THR	L	259	32.532	143.028	158.590	1.00143.06
ATOM	21734	C	THR	L	259	31.597	143.302	159.766	1.00143.92
ATOM	21735	O	THR	L	259	31.486	142.500	160.698	1.00144.28
ATOM	21736	CB	THR	L	259	33.926	142.631	159.114	1.00141.79
ATOM	21737	OG1	THR	L	259	34.482	143.710	159.875	1.00139.61
ATOM	21738	CG2	THR	L	259	34.851	142.316	157.950	1.00140.77
ATOM	21739	N	GLY	L	260	30.921	144.446	159.698	1.00144.39
ATOM	21740	CA	GLY	L	260	29.987	144.838	160.737	1.00144.52
ATOM	21741	C	GLY	L	260	29.162	146.039	160.318	1.00144.76
ATOM	21742	O	GLY	L	260	28.074	146.278	160.846	1.00144.65
ATOM	21743	N	GLY	L	261	29.678	146.793	159.353	1.00144.77
ATOM	21744	CA	GLY	L	261	28.977	147.972	158.886	1.00145.06
ATOM	21745	C	GLY	L	261	29.240	149.134	159.820	1.00145.59
ATOM	21746	O	GLY	L	261	28.351	149.942	160.081	1.00145.20
ATOM	21747	N	GLN	L	262	30.471	149.214	160.319	1.00146.51
ATOM	21748	CA	GLN	L	262	30.879	150.266	161.253	1.00147.10
ATOM	21749	C	GLN	L	262	32.126	151.009	160.757	1.00147.79
ATOM	21750	O	GLN	L	262	32.966	151.426	161.557	1.00148.04
ATOM	21751	CB	GLN	L	262	31.167	149.646	162.630	1.00146.16
ATOM	21752	CG	GLN	L	262	31.421	150.640	163.759	1.00144.09
ATOM	21753	CD	GLN	L	262	30.146	151.087	164.440	1.00143.08
ATOM	21754	OE1	GLN	L	262	29.213	151.549	163.791	1.00142.89
ATOM	21755	NE2	GLN	L	262	30.101	150.951	165.757	1.00141.85
ATOM	21756	N	VAL	L	263	32.247	151.173	159.442	1.00148.34
ATOM	21757	CA	VAL	L	263	33.399	151.862	158.859	1.00148.58
ATOM	21758	C	VAL	L	263	33.604	153.247	159.466	1.00149.13
ATOM	21759	O	VAL	L	263	32.672	154.050	159.529	1.00149.20
ATOM	21760	CB	VAL	L	263	33.244	152.018	157.334	1.00148.16

ATOM	21761	CG1	VAL	L	263	34.464	152.715	156.756	1.00147.47
ATOM	21762	CG2	VAL	L	263	33.056	150.658	156.694	1.00148.05
ATOM	21763	N	THR	L	264	34.828	153.523	159.908	1.00149.52
ATOM	21764	CA	THR	L	264	35.143	154.814	160.511	1.00150.34
ATOM	21765	C	THR	L	264	36.533	155.281	160.080	1.00150.80
ATOM	21766	O	THR	L	264	36.990	154.958	158.983	1.00150.58
ATOM	21767	CB	THR	L	264	35.086	154.733	162.057	1.00150.14
ATOM	21768	OG1	THR	L	264	33.969	153.926	162.453	1.00149.44
ATOM	21769	CG2	THR	L	264	34.919	156.126	162.661	1.00149.96
ATOM	21770	N	ALA	L	265	37.200	156.037	160.948	1.00151.85
ATOM	21771	CA	ALA	L	265	38.533	156.558	160.661	1.00153.22
ATOM	21772	C	ALA	L	265	39.634	155.781	161.386	1.00154.21
ATOM	21773	O	ALA	L	265	39.511	155.466	162.572	1.00154.49
ATOM	21774	CB	ALA	L	265	38.601	158.035	161.036	1.00153.01
ATOM	21775	N	GLY	L	266	40.712	155.484	160.663	1.00155.32
ATOM	21776	CA	GLY	L	266	41.826	154.749	161.240	1.00156.24
ATOM	21777	C	GLY	L	266	42.626	153.983	160.200	1.00156.79
ATOM	21778	O	GLY	L	266	42.061	153.218	159.416	1.00156.86
ATOM	21779	N	ASN	L	267	43.943	154.185	160.193	1.00157.44
ATOM	21780	CA	ASN	L	267	44.832	153.514	159.242	1.00157.65
ATOM	21781	C	ASN	L	267	44.547	152.014	159.151	1.00157.25
ATOM	21782	O	ASN	L	267	44.374	151.339	160.168	1.00157.29
ATOM	21783	CB	ASN	L	267	46.300	153.750	159.630	1.00158.05
ATOM	21784	CG	ASN	L	267	46.735	155.197	159.434	1.00158.42
ATOM	21785	OD1	ASN	L	267	46.770	155.700	158.310	1.00158.46
ATOM	21786	ND2	ASN	L	267	47.067	155.873	160.530	1.00158.56
ATOM	21787	N	VAL	L	268	44.503	151.504	157.924	1.00156.44
ATOM	21788	CA	VAL	L	268	44.221	150.093	157.680	1.00155.96
ATOM	21789	C	VAL	L	268	45.407	149.412	156.983	1.00155.68
ATOM	21790	O	VAL	L	268	46.338	150.082	156.539	1.00155.54
ATOM	21791	CB	VAL	L	268	42.945	149.944	156.803	1.00156.06
ATOM	21792	CG1	VAL	L	268	42.468	148.499	156.797	1.00156.42
ATOM	21793	CG2	VAL	L	268	41.846	150.861	157.321	1.00155.18
ATOM	21794	N	GLN	L	269	45.363	148.081	156.904	1.00155.39
ATOM	21795	CA	GLN	L	269	46.410	147.271	156.268	1.00154.62
ATOM	21796	C	GLN	L	269	45.846	145.886	155.928	1.00154.04
ATOM	21797	O	GLN	L	269	44.743	145.544	156.352	1.00154.55
ATOM	21798	CB	GLN	L	269	47.606	147.116	157.212	1.00155.18
ATOM	21799	CG	GLN	L	269	48.349	148.409	157.508	1.00156.12
ATOM	21800	CD	GLN	L	269	49.144	148.344	158.797	1.00156.80
ATOM	21801	OE1	GLN	L	269	50.042	147.513	158.950	1.00155.92
ATOM	21802	NE2	GLN	L	269	48.814	149.223	159.738	1.00157.06
ATOM	21803	N	SER	L	270	46.596	145.093	155.165	1.00153.18
ATOM	21804	CA	SER	L	270	46.141	143.753	154.793	1.00152.35
ATOM	21805	C	SER	L	270	47.257	142.896	154.194	1.00151.56
ATOM	21806	O	SER	L	270	48.229	143.418	153.643	1.00150.36
ATOM	21807	CB	SER	L	270	44.974	143.848	153.801	1.00152.74
ATOM	21808	OG	SER	L	270	44.424	142.570	153.527	1.00153.16
ATOM	21809	N	ILE	L	271	47.104	141.578	154.305	1.00151.18
ATOM	21810	CA	ILE	L	271	48.089	140.623	153.792	1.00150.06
ATOM	21811	C	ILE	L	271	47.449	139.351	153.205	1.00149.32
ATOM	21812	O	ILE	L	271	47.218	138.367	153.918	1.00148.93
ATOM	21813	CB	ILE	L	271	49.088	140.217	154.908	1.00149.99
ATOM	21814	CG1	ILE	L	271	48.324	139.731	156.146	1.00149.80
ATOM	21815	CG2	ILE	L	271	49.979	141.400	155.261	1.00148.59
ATOM	21816	CD1	ILE	L	271	49.209	139.213	157.267	1.00150.63
ATOM	21817	N	ILE	L	272	47.170	139.380	151.902	1.00147.98
ATOM	21818	CA	ILE	L	272	46.563	138.245	151.203	1.00145.93
ATOM	21819	C	ILE	L	272	47.652	137.389	150.569	1.00144.65
ATOM	21820	O	ILE	L	272	48.703	137.901	150.185	1.00144.79
ATOM	21821	CB	ILE	L	272	45.616	138.711	150.072	1.00145.92
ATOM	21822	CG1	ILE	L	272	44.633	139.764	150.598	1.00146.56

ATOM	21823	CG2	ILE	L	272	44.875	137.516	149.491	1.00144.99
ATOM	21824	CD1	ILE	L	272	43.762	139.296	151.745	1.00146.34
ATOM	21825	N	GLY	L	273	47.397	136.089	150.455	1.00143.00
ATOM	21826	CA	GLY	L	273	48.375	135.192	149.863	1.00140.82
ATOM	21827	C	GLY	L	273	47.841	134.467	148.641	1.00138.84
ATOM	21828	O	GLY	L	273	47.071	133.514	148.768	1.00139.06
ATOM	21829	N	VAL	L	274	48.256	134.908	147.456	1.00136.71
ATOM	21830	CA	VAL	L	274	47.803	134.298	146.208	1.00134.63
ATOM	21831	C	VAL	L	274	48.545	133.001	145.883	1.00133.33
ATOM	21832	O	VAL	L	274	49.446	132.984	145.041	1.00132.66
ATOM	21833	CB	VAL	L	274	47.965	135.269	145.017	1.00134.35
ATOM	21834	CG1	VAL	L	274	47.311	134.685	143.779	1.00133.80
ATOM	21835	CG2	VAL	L	274	47.346	136.611	145.351	1.00134.60
ATOM	21836	N	THR	L	275	48.154	131.919	146.554	1.00131.87
ATOM	21837	CA	THR	L	275	48.763	130.606	146.347	1.00128.82
ATOM	21838	C	THR	L	275	48.475	130.100	144.939	1.00127.61
ATOM	21839	O	THR	L	275	47.337	130.156	144.470	1.00126.30
ATOM	21840	CB	THR	L	275	48.217	129.565	147.344	1.00127.97
ATOM	21841	OG1	THR	L	275	48.437	130.019	148.685	1.00126.46
ATOM	21842	CG2	THR	L	275	48.910	128.227	147.143	1.00126.03
ATOM	21843	N	PHE	L	276	49.515	129.608	144.272	1.00126.63
ATOM	21844	CA	PHE	L	276	49.390	129.082	142.916	1.00125.13
ATOM	21845	C	PHE	L	276	49.560	127.574	142.906	1.00123.23
ATOM	21846	O	PHE	L	276	50.388	127.028	143.633	1.00123.29
ATOM	21847	CB	PHE	L	276	50.442	129.700	141.990	1.00125.64
ATOM	21848	CG	PHE	L	276	50.030	131.009	141.384	1.00126.22
ATOM	21849	CD1	PHE	L	276	49.738	132.105	142.189	1.00127.27
ATOM	21850	CD2	PHE	L	276	49.947	131.148	140.002	1.00126.32
ATOM	21851	CE1	PHE	L	276	49.369	133.323	141.625	1.00128.38
ATOM	21852	CE2	PHE	L	276	49.580	132.361	139.427	1.00127.32
ATOM	21853	CZ	PHE	L	276	49.291	133.452	140.239	1.00128.21
ATOM	21854	N	VAL	L	277	48.768	126.908	142.075	1.00120.99
ATOM	21855	CA	VAL	L	277	48.834	125.463	141.951	1.00118.23
ATOM	21856	C	VAL	L	277	49.217	125.168	140.501	1.00117.33
ATOM	21857	O	VAL	L	277	48.531	125.600	139.574	1.00116.23
ATOM	21858	CB	VAL	L	277	47.464	124.811	142.282	1.00117.19
ATOM	21859	CG1	VAL	L	277	47.608	123.302	142.342	1.00117.09
ATOM	21860	CG2	VAL	L	277	46.933	125.345	143.607	1.00114.27
ATOM	21861	N	TYR	L	278	50.325	124.454	140.309	1.00116.39
ATOM	21862	CA	TYR	L	278	50.788	124.119	138.963	1.00114.99
ATOM	21863	C	TYR	L	278	50.338	122.721	138.542	1.00114.94
ATOM	21864	O	TYR	L	278	49.905	121.919	139.374	1.00115.12
ATOM	21865	CB	TYR	L	278	52.318	124.195	138.875	1.00112.74
ATOM	21866	CG	TYR	L	278	52.923	125.535	139.238	1.00111.16
ATOM	21867	CD1	TYR	L	278	53.010	125.949	140.569	1.00111.51
ATOM	21868	CD2	TYR	L	278	53.433	126.379	138.253	1.00109.86
ATOM	21869	CE1	TYR	L	278	53.597	127.172	140.910	1.00111.03
ATOM	21870	CE2	TYR	L	278	54.018	127.604	138.581	1.00109.63
ATOM	21871	CZ	TYR	L	278	54.098	127.993	139.909	1.00110.61
ATOM	21872	OH	TYR	L	278	54.681	129.197	140.236	1.00111.59
ATOM	21873	N	GLN	L	279	50.447	122.441	137.244	1.00114.64
ATOM	21874	CA	GLN	L	279	50.066	121.145	136.685	1.00113.68
ATOM	21875	C	GLN	L	279	51.202	120.558	135.851	1.00114.22
ATOM	21876	O	GLN	L	279	51.542	119.378	136.079	1.00114.40
ATOM	21877	CB	GLN	L	279	48.825	121.274	135.800	1.00112.19
ATOM	21878	CG	GLN	L	279	48.327	119.937	135.263	1.00110.22
ATOM	21879	CD	GLN	L	279	47.322	120.087	134.139	1.00108.94
ATOM	21880	OE1	GLN	L	279	46.789	119.101	133.632	1.00107.29
ATOM	21881	NE2	GLN	L	279	47.065	121.323	133.737	1.00109.77
ATOM	21882	OXT	GLN	L	279	51.724	121.278	134.970	1.00114.07
ATOM	21883	N	GLY	M	1	137.790	9.941	89.086	1.00110.33
ATOM	21884	CA	GLY	M	1	136.632	10.149	88.189	1.00110.37

ATOM	21885	C	GLY	M	1	135.322	9.814	88.869	1.00111.33
ATOM	21886	O	GLY	M	1	135.086	8.668	89.255	1.00111.25
ATOM	21887	N	VAL	M	2	134.470	10.823	89.025	1.00112.34
ATOM	21888	CA	VAL	M	2	133.164	10.639	89.653	1.00112.75
ATOM	21889	C	VAL	M	2	132.084	10.835	88.582	1.00113.87
ATOM	21890	O	VAL	M	2	131.860	11.951	88.098	1.00113.33
ATOM	21891	CB	VAL	M	2	132.947	11.653	90.822	1.00111.72
ATOM	21892	CG1	VAL	M	2	131.677	11.306	91.593	1.00109.52
ATOM	21893	CG2	VAL	M	2	134.153	11.646	91.760	1.00109.33
ATOM	21894	N	ALA	M	3	131.428	9.739	88.207	1.00114.67
ATOM	21895	CA	ALA	M	3	130.388	9.775	87.185	1.00115.87
ATOM	21896	C	ALA	M	3	129.162	8.963	87.592	1.00116.87
ATOM	21897	O	ALA	M	3	129.000	7.819	87.172	1.00116.16
ATOM	21898	CB	ALA	M	3	130.946	9.245	85.872	1.00115.89
ATOM	21899	N	LEU	M	4	128.298	9.559	88.406	1.00119.02
ATOM	21900	CA	LEU	M	4	127.094	8.872	88.861	1.00121.15
ATOM	21901	C	LEU	M	4	126.369	8.178	87.719	1.00121.59
ATOM	21902	O	LEU	M	4	126.031	8.808	86.717	1.00121.40
ATOM	21903	CB	LEU	M	4	126.132	9.851	89.549	1.00122.37
ATOM	21904	CG	LEU	M	4	126.376	10.164	91.031	1.00123.88
ATOM	21905	CD1	LEU	M	4	125.310	11.129	91.537	1.00124.01
ATOM	21906	CD2	LEU	M	4	126.340	8.873	91.838	1.00124.36
ATOM	21907	N	GLY	M	5	126.139	6.877	87.880	1.00122.10
ATOM	21908	CA	GLY	M	5	125.441	6.116	86.862	1.00121.84
ATOM	21909	C	GLY	M	5	124.149	6.828	86.524	1.00121.57
ATOM	21910	O	GLY	M	5	123.576	6.629	85.451	1.00122.17
ATOM	21911	N	ALA	M	6	123.698	7.663	87.458	1.00120.67
ATOM	21912	CA	ALA	M	6	122.480	8.446	87.290	1.00119.52
ATOM	21913	C	ALA	M	6	122.778	9.929	87.503	1.00118.48
ATOM	21914	O	ALA	M	6	123.441	10.318	88.469	1.00118.75
ATOM	21915	CB	ALA	M	6	121.409	7.982	88.270	1.00118.70
ATOM	21916	N	THR	M	7	122.281	10.750	86.586	1.00116.15
ATOM	21917	CA	THR	M	7	122.473	12.189	86.645	1.00113.01
ATOM	21918	C	THR	M	7	121.155	12.888	86.969	1.00112.19
ATOM	21919	O	THR	M	7	121.115	14.100	87.183	1.00112.19
ATOM	21920	CB	THR	M	7	123.000	12.699	85.304	1.00112.14
ATOM	21921	OG1	THR	M	7	122.255	12.088	84.241	1.00111.29
ATOM	21922	CG2	THR	M	7	124.467	12.354	85.149	1.00110.37
ATOM	21923	N	ARG	M	8	120.081	12.107	87.018	1.00110.61
ATOM	21924	CA	ARG	M	8	118.753	12.628	87.296	1.00108.92
ATOM	21925	C	ARG	M	8	117.810	11.468	87.590	1.00108.68
ATOM	21926	O	ARG	M	8	117.513	10.664	86.709	1.00108.34
ATOM	21927	CB	ARG	M	8	118.262	13.421	86.085	1.00107.93
ATOM	21928	CG	ARG	M	8	118.332	12.644	84.780	1.00108.01
ATOM	21929	CD	ARG	M	8	118.620	13.536	83.573	1.00107.65
ATOM	21930	NE	ARG	M	8	117.587	14.543	83.352	1.00107.75
ATOM	21931	CZ	ARG	M	8	117.492	15.687	84.025	1.00108.61
ATOM	21932	NH1	ARG	M	8	118.383	15.995	84.960	1.00108.16
ATOM	21933	NH2	ARG	M	8	116.510	16.534	83.750	1.00109.12
ATOM	21934	N	VAL	M	9	117.340	11.390	88.833	1.00109.12
ATOM	21935	CA	VAL	M	9	116.442	10.320	89.266	1.00109.24
ATOM	21936	C	VAL	M	9	114.995	10.774	89.476	1.00110.11
ATOM	21937	O	VAL	M	9	114.738	11.918	89.858	1.00109.69
ATOM	21938	CB	VAL	M	9	116.946	9.688	90.585	1.00108.62
ATOM	21939	CG1	VAL	M	9	116.053	8.523	90.991	1.00108.03
ATOM	21940	CG2	VAL	M	9	118.385	9.232	90.421	1.00108.56
ATOM	21941	N	ILE	M	10	114.057	9.861	89.223	1.00111.40
ATOM	21942	CA	ILE	M	10	112.626	10.123	89.396	1.00112.65
ATOM	21943	C	ILE	M	10	112.110	9.269	90.552	1.00114.05
ATOM	21944	O	ILE	M	10	112.171	8.042	90.503	1.00113.58
ATOM	21945	CB	ILE	M	10	111.823	9.767	88.119	1.00111.28
ATOM	21946	CG1	ILE	M	10	112.214	10.710	86.975	1.00110.44

ATOM	21947	CG2	ILE	M	10	110.323	9.830	88.403	1.00108.70
ATOM	21948	CD1	ILE	M	10	111.883	12.166	87.222	1.00109.64
ATOM	21949	N	TYR	M	11	111.601	9.924	91.589	1.00115.97
ATOM	21950	CA	TYR	M	11	111.098	9.212	92.756	1.00118.62
ATOM	21951	C	TYR	M	11	109.586	9.005	92.705	1.00119.38
ATOM	21952	O	TYR	M	11	108.820	9.967	92.779	1.00119.10
ATOM	21953	CB	TYR	M	11	111.456	9.984	94.033	1.00119.98
ATOM	21954	CG	TYR	M	11	111.363	9.175	95.314	1.00120.61
ATOM	21955	CD1	TYR	M	11	112.390	8.307	95.691	1.00119.49
ATOM	21956	CD2	TYR	M	11	110.253	9.285	96.153	1.00121.26
ATOM	21957	CE1	TYR	M	11	112.317	7.571	96.873	1.00119.72
ATOM	21958	CE2	TYR	M	11	110.169	8.551	97.339	1.00121.91
ATOM	21959	CZ	TYR	M	11	111.204	7.698	97.692	1.00121.07
ATOM	21960	OH	TYR	M	11	111.127	6.988	98.868	1.00120.21
ATOM	21961	N	PRO	M	12	109.138	7.746	92.553	1.00120.27
ATOM	21962	CA	PRO	M	12	107.699	7.458	92.507	1.00121.94
ATOM	21963	C	PRO	M	12	107.045	7.786	93.862	1.00123.81
ATOM	21964	O	PRO	M	12	107.739	8.094	94.837	1.00124.73
ATOM	21965	CB	PRO	M	12	107.660	5.964	92.188	1.00120.67
ATOM	21966	CG	PRO	M	12	108.889	5.774	91.356	1.00119.20
ATOM	21967	CD	PRO	M	12	109.917	6.574	92.117	1.00119.61
ATOM	21968	N	ALA	M	13	105.718	7.724	93.926	1.00124.20
ATOM	21969	CA	ALA	M	13	105.016	8.023	95.170	1.00124.42
ATOM	21970	C	ALA	M	13	104.718	6.754	95.962	1.00124.85
ATOM	21971	O	ALA	M	13	104.535	5.681	95.386	1.00124.54
ATOM	21972	CB	ALA	M	13	103.726	8.767	94.872	1.00125.50
ATOM	21973	N	GLY	M	14	104.668	6.882	97.285	1.00125.13
ATOM	21974	CA	GLY	M	14	104.393	5.732	98.127	1.00125.31
ATOM	21975	C	GLY	M	14	105.500	4.696	98.059	1.00125.53
ATOM	21976	O	GLY	M	14	105.288	3.529	98.384	1.00125.34
ATOM	21977	N	GLN	M	15	106.683	5.128	97.629	1.00125.76
ATOM	21978	CA	GLN	M	15	107.840	4.244	97.516	1.00125.46
ATOM	21979	C	GLN	M	15	108.767	4.368	98.716	1.00125.84
ATOM	21980	O	GLN	M	15	108.844	5.421	99.352	1.00125.74
ATOM	21981	CB	GLN	M	15	108.624	4.554	96.240	1.00125.10
ATOM	21982	CG	GLN	M	15	108.239	3.687	95.058	1.00124.74
ATOM	21983	CD	GLN	M	15	108.675	2.245	95.236	1.00124.66
ATOM	21984	OE1	GLN	M	15	108.399	1.622	96.264	1.00124.97
ATOM	21985	NE2	GLN	M	15	109.356	1.704	94.231	1.00122.88
ATOM	21986	N	LYS	M	16	109.474	3.284	99.016	1.00125.88
ATOM	21987	CA	LYS	M	16	110.399	3.261	100.140	1.00126.03
ATOM	21988	C	LYS	M	16	111.795	3.692	99.700	1.00126.41
ATOM	21989	O	LYS	M	16	112.221	4.816	99.967	1.00127.35
ATOM	21990	CB	LYS	M	16	110.451	1.853	100.749	1.00125.48
ATOM	21991	CG	LYS	M	16	111.476	1.671	101.866	1.00123.78
ATOM	21992	CD	LYS	M	16	111.531	0.219	102.328	1.00121.59
ATOM	21993	CE	LYS	M	16	112.656	-0.013	103.323	1.00120.78
ATOM	21994	NZ	LYS	M	16	112.713	-1.428	103.779	1.00120.79
ATOM	21995	N	GLN	M	17	112.501	2.798	99.017	1.00126.17
ATOM	21996	CA	GLN	M	17	113.851	3.096	98.563	1.00126.02
ATOM	21997	C	GLN	M	17	113.999	3.081	97.048	1.00126.05
ATOM	21998	O	GLN	M	17	113.311	2.336	96.350	1.00126.30
ATOM	21999	CB	GLN	M	17	114.847	2.105	99.183	1.00125.65
ATOM	22000	CG	GLN	M	17	114.532	0.636	98.926	1.00124.82
ATOM	22001	CD	GLN	M	17	115.629	-0.296	99.414	1.00124.33
ATOM	22002	OE1	GLN	M	17	116.064	-0.214	100.563	1.00124.43
ATOM	22003	NE2	GLN	M	17	116.076	-1.193	98.542	1.00123.21
ATOM	22004	N	VAL	M	18	114.902	3.923	96.554	1.00125.60
ATOM	22005	CA	VAL	M	18	115.198	4.025	95.131	1.00125.17
ATOM	22006	C	VAL	M	18	116.712	3.920	94.983	1.00125.51
ATOM	22007	O	VAL	M	18	117.427	4.913	95.122	1.00126.12
ATOM	22008	CB	VAL	M	18	114.714	5.375	94.545	1.00124.49

ATOM	22009	CG1	VAL	M	18	115.156	5.514	93.095	1.00123.24
ATOM	22010	CG2	VAL	M	18	113.205	5.456	94.627	1.00124.54
ATOM	22011	N	GLN	M	19	117.197	2.711	94.714	1.00125.42
ATOM	22012	CA	GLN	M	19	118.629	2.470	94.565	1.00125.11
ATOM	22013	C	GLN	M	19	119.288	3.220	93.408	1.00125.51
ATOM	22014	O	GLN	M	19	118.622	3.719	92.497	1.00125.52
ATOM	22015	CB	GLN	M	19	118.905	0.972	94.397	1.00124.35
ATOM	22016	CG	GLN	M	19	118.451	0.100	95.551	1.00123.54
ATOM	22017	CD	GLN	M	19	118.919	-1.340	95.408	1.00124.11
ATOM	22018	OE1	GLN	M	19	118.547	-2.207	96.200	1.00124.83
ATOM	22019	NE2	GLN	M	19	119.744	-1.599	94.398	1.00123.91
ATOM	22020	N	LEU	M	20	120.615	3.284	93.464	1.00125.67
ATOM	22021	CA	LEU	M	20	121.423	3.939	92.443	1.00125.67
ATOM	22022	C	LEU	M	20	122.893	3.617	92.677	1.00126.02
ATOM	22023	O	LEU	M	20	123.395	3.732	93.795	1.00125.69
ATOM	22024	CB	LEU	M	20	121.221	5.455	92.465	1.00125.27
ATOM	22025	CG	LEU	M	20	122.211	6.216	91.578	1.00125.30
ATOM	22026	CD1	LEU	M	20	122.228	5.597	90.188	1.00126.05
ATOM	22027	CD2	LEU	M	20	121.840	7.689	91.522	1.00125.41
ATOM	22028	N	ALA	M	21	123.577	3.222	91.611	1.00126.65
ATOM	22029	CA	ALA	M	21	124.985	2.863	91.697	1.00126.97
ATOM	22030	C	ALA	M	21	125.915	4.061	91.819	1.00126.88
ATOM	22031	O	ALA	M	21	125.590	5.172	91.393	1.00126.26
ATOM	22032	CB	ALA	M	21	125.378	2.028	90.485	1.00128.03
ATOM	22033	N	VAL	M	22	127.079	3.813	92.411	1.00126.87
ATOM	22034	CA	VAL	M	22	128.104	4.829	92.598	1.00126.35
ATOM	22035	C	VAL	M	22	129.438	4.174	92.252	1.00126.02
ATOM	22036	O	VAL	M	22	129.951	3.358	93.016	1.00125.49
ATOM	22037	CB	VAL	M	22	128.149	5.325	94.061	1.00126.39
ATOM	22038	CG1	VAL	M	22	129.129	6.481	94.186	1.00126.49
ATOM	22039	CG2	VAL	M	22	126.762	5.751	94.513	1.00125.18
ATOM	22040	N	THR	M	23	129.985	4.521	91.090	1.00126.30
ATOM	22041	CA	THR	M	23	131.255	3.959	90.636	1.00126.48
ATOM	22042	C	THR	M	23	132.406	4.928	90.868	1.00128.20
ATOM	22043	O	THR	M	23	132.198	6.122	91.080	1.00129.36
ATOM	22044	CB	THR	M	23	131.214	3.624	89.131	1.00124.11
ATOM	22045	OG1	THR	M	23	130.102	2.765	88.861	1.00122.67
ATOM	22046	CG2	THR	M	23	132.495	2.929	88.706	1.00122.23
ATOM	22047	N	ASN	M	24	133.624	4.404	90.830	1.00129.22
ATOM	22048	CA	ASN	M	24	134.805	5.225	91.017	1.00130.89
ATOM	22049	C	ASN	M	24	135.748	4.958	89.859	1.00132.02
ATOM	22050	O	ASN	M	24	136.443	3.948	89.847	1.00132.21
ATOM	22051	CB	ASN	M	24	135.486	4.878	92.340	1.00131.07
ATOM	22052	CG	ASN	M	24	136.708	5.730	92.603	1.00132.16
ATOM	22053	OD1	ASN	M	24	136.641	6.962	92.574	1.00132.83
ATOM	22054	ND2	ASN	M	24	137.835	5.081	92.863	1.00131.73
ATOM	22055	N	ASN	M	25	135.767	5.859	88.881	1.00133.50
ATOM	22056	CA	ASN	M	25	136.628	5.692	87.714	1.00135.22
ATOM	22057	C	ASN	M	25	138.113	5.792	88.069	1.00137.05
ATOM	22058	O	ASN	M	25	138.978	5.523	87.233	1.00136.92
ATOM	22059	CB	ASN	M	25	136.288	6.732	86.646	1.00133.67
ATOM	22060	CG	ASN	M	25	136.911	6.407	85.305	1.00132.25
ATOM	22061	OD1	ASN	M	25	136.573	5.402	84.680	1.00131.22
ATOM	22062	ND2	ASN	M	25	137.832	7.252	84.858	1.00131.07
ATOM	22063	N	ASP	M	26	138.400	6.188	89.308	1.00139.31
ATOM	22064	CA	ASP	M	26	139.779	6.303	89.783	1.00141.47
ATOM	22065	C	ASP	M	26	140.304	4.886	90.036	1.00142.07
ATOM	22066	O	ASP	M	26	139.833	4.203	90.946	1.00142.54
ATOM	22067	CB	ASP	M	26	139.838	7.106	91.096	1.00142.94
ATOM	22068	CG	ASP	M	26	139.382	8.557	90.934	1.00144.00
ATOM	22069	OD1	ASP	M	26	140.057	9.326	90.211	1.00143.80
ATOM	22070	OD2	ASP	M	26	138.350	8.931	91.537	1.00143.50

ATOM	22071	N	GLU	M	27	141.270	4.448	89.231	1.00142.42
ATOM	22072	CA	GLU	M	27	141.845	3.109	89.377	1.00142.47
ATOM	22073	C	GLU	M	27	142.153	2.743	90.828	1.00142.39
ATOM	22074	O	GLU	M	27	141.526	1.848	91.400	1.00142.30
ATOM	22075	CB	GLU	M	27	143.123	2.981	88.538	1.00142.67
ATOM	22076	CG	GLU	M	27	142.883	2.669	87.068	1.00143.45
ATOM	22077	CD	GLU	M	27	142.295	1.282	86.851	1.00144.08
ATOM	22078	OE1	GLU	M	27	141.223	0.989	87.422	1.00144.32
ATOM	22079	OE2	GLU	M	27	142.903	0.484	86.106	1.00144.13
ATOM	22080	N	ASN	M	28	143.121	3.439	91.418	1.00142.04
ATOM	22081	CA	ASN	M	28	143.521	3.185	92.798	1.00141.22
ATOM	22082	C	ASN	M	28	143.461	4.441	93.662	1.00140.60
ATOM	22083	O	ASN	M	28	144.212	5.393	93.444	1.00140.50
ATOM	22084	CB	ASN	M	28	144.936	2.599	92.828	1.00141.53
ATOM	22085	CG	ASN	M	28	145.933	3.425	92.028	1.00141.79
ATOM	22086	OD1	ASN	M	28	147.111	3.079	91.939	1.00142.02
ATOM	22087	ND2	ASN	M	28	145.463	4.519	91.440	1.00141.37
ATOM	22088	N	SER	M	29	142.564	4.431	94.645	1.00139.83
ATOM	22089	CA	SER	M	29	142.388	5.559	95.555	1.00138.56
ATOM	22090	C	SER	M	29	141.178	5.337	96.452	1.00138.38
ATOM	22091	O	SER	M	29	140.179	4.756	96.024	1.00138.17
ATOM	22092	CB	SER	M	29	142.205	6.857	94.764	1.00138.15
ATOM	22093	OG	SER	M	29	141.161	6.730	93.814	1.00136.43
ATOM	22094	N	THR	M	30	141.271	5.799	97.696	1.00138.27
ATOM	22095	CA	THR	M	30	140.175	5.652	98.650	1.00138.23
ATOM	22096	C	THR	M	30	139.545	6.998	98.999	1.00139.01
ATOM	22097	O	THR	M	30	140.245	7.994	99.211	1.00139.46
ATOM	22098	CB	THR	M	30	140.643	4.997	99.966	1.00136.95
ATOM	22099	OG1	THR	M	30	141.339	3.782	99.676	1.00136.70
ATOM	22100	CG2	THR	M	30	139.448	4.675	100.852	1.00136.07
ATOM	22101	N	TYR	M	31	138.216	7.015	99.054	1.00138.99
ATOM	22102	CA	TYR	M	31	137.467	8.220	99.388	1.00138.35
ATOM	22103	C	TYR	M	31	136.366	7.852	100.374	1.00138.71
ATOM	22104	O	TYR	M	31	135.574	6.947	100.112	1.00138.82
ATOM	22105	CB	TYR	M	31	136.829	8.831	98.136	1.00136.55
ATOM	22106	CG	TYR	M	31	137.769	8.984	96.964	1.00134.74
ATOM	22107	CD1	TYR	M	31	138.056	7.903	96.133	1.00133.69
ATOM	22108	CD2	TYR	M	31	138.386	10.204	96.693	1.00133.66
ATOM	22109	CE1	TYR	M	31	138.931	8.031	95.062	1.00133.18
ATOM	22110	CE2	TYR	M	31	139.266	10.343	95.625	1.00133.04
ATOM	22111	CZ	TYR	M	31	139.535	9.251	94.813	1.00132.75
ATOM	22112	OH	TYR	M	31	140.410	9.373	93.760	1.00132.17
ATOM	22113	N	LEU	M	32	136.327	8.546	101.508	1.00139.21
ATOM	22114	CA	LEU	M	32	135.310	8.300	102.526	1.00139.27
ATOM	22115	C	LEU	M	32	133.945	8.665	101.946	1.00139.78
ATOM	22116	O	LEU	M	32	133.334	9.661	102.343	1.00139.90
ATOM	22117	CB	LEU	M	32	135.590	9.147	103.773	1.00138.82
ATOM	22118	CG	LEU	M	32	136.873	8.860	104.562	1.00138.43
ATOM	22119	CD1	LEU	M	32	137.069	9.928	105.626	1.00137.91
ATOM	22120	CD2	LEU	M	32	136.791	7.483	105.198	1.00137.79
ATOM	22121	N	ILE	M	33	133.481	7.849	101.000	1.00139.95
ATOM	22122	CA	ILE	M	33	132.202	8.061	100.330	1.00139.68
ATOM	22123	C	ILE	M	33	131.135	8.552	101.298	1.00140.43
ATOM	22124	O	ILE	M	33	131.022	8.062	102.425	1.00140.65
ATOM	22125	CB	ILE	M	33	131.702	6.768	99.660	1.00138.43
ATOM	22126	CG1	ILE	M	33	132.847	6.099	98.900	1.00137.74
ATOM	22127	CG2	ILE	M	33	130.565	7.090	98.703	1.00137.99
ATOM	22128	CD1	ILE	M	33	133.455	6.960	97.813	1.00138.27
ATOM	22129	N	GLN	M	34	130.352	9.526	100.847	1.00140.69
ATOM	22130	CA	GLN	M	34	129.300	10.099	101.671	1.00140.73
ATOM	22131	C	GLN	M	34	128.145	10.527	100.775	1.00141.09
ATOM	22132	O	GLN	M	34	128.336	11.270	99.810	1.00141.04

ATOM	22133	CB	GLN	M	34	129.858	11.297	102.440	1.00140.19
ATOM	22134	CG	GLN	M	34	129.007	11.768	103.596	1.00138.98
ATOM	22135	CD	GLN	M	34	129.746	12.761	104.471	1.00139.20
ATOM	22136	OE1	GLN	M	34	130.179	13.817	104.007	1.00139.13
ATOM	22137	NE2	GLN	M	34	129.899	12.423	105.747	1.00138.89
ATOM	22138	N	SER	M	35	126.949	10.044	101.094	1.00141.34
ATOM	22139	CA	SER	M	35	125.761	10.365	100.313	1.00141.50
ATOM	22140	C	SER	M	35	124.650	10.973	101.172	1.00141.08
ATOM	22141	O	SER	M	35	124.474	10.602	102.334	1.00140.73
ATOM	22142	CB	SER	M	35	125.255	9.104	99.601	1.00141.98
ATOM	22143	OG	SER	M	35	125.123	8.017	100.503	1.00141.76
ATOM	22144	N	TRP	M	36	123.905	11.910	100.590	1.00140.66
ATOM	22145	CA	TRP	M	36	122.817	12.579	101.296	1.00139.85
ATOM	22146	C	TRP	M	36	121.974	13.419	100.334	1.00138.94
ATOM	22147	O	TRP	M	36	122.431	13.794	99.251	1.00138.29
ATOM	22148	CB	TRP	M	36	123.388	13.481	102.393	1.00141.25
ATOM	22149	CG	TRP	M	36	124.140	14.672	101.856	1.00142.79
ATOM	22150	CD1	TRP	M	36	123.605	15.848	101.397	1.00142.77
ATOM	22151	CD2	TRP	M	36	125.558	14.786	101.684	1.00142.80
ATOM	22152	NE1	TRP	M	36	124.602	16.681	100.952	1.00143.13
ATOM	22153	CE2	TRP	M	36	125.810	16.055	101.116	1.00143.13
ATOM	22154	CE3	TRP	M	36	126.641	13.938	101.955	1.00142.20
ATOM	22155	CZ2	TRP	M	36	127.102	16.496	100.814	1.00143.03
ATOM	22156	CZ3	TRP	M	36	127.926	14.377	101.654	1.00141.92
ATOM	22157	CH2	TRP	M	36	128.143	15.645	101.089	1.00142.71
ATOM	22158	N	VAL	M	37	120.744	13.714	100.745	1.00137.97
ATOM	22159	CA	VAL	M	37	119.825	14.514	99.940	1.00136.51
ATOM	22160	C	VAL	M	37	119.504	15.810	100.680	1.00135.42
ATOM	22161	O	VAL	M	37	119.469	15.839	101.911	1.00135.35
ATOM	22162	CB	VAL	M	37	118.497	13.757	99.677	1.00136.45
ATOM	22163	CG1	VAL	M	37	117.584	14.593	98.786	1.00135.25
ATOM	22164	CG2	VAL	M	37	118.783	12.410	99.036	1.00135.72
ATOM	22165	N	GLU	M	38	119.265	16.879	99.928	1.00133.71
ATOM	22166	CA	GLU	M	38	118.947	18.172	100.524	1.00131.73
ATOM	22167	C	GLU	M	38	117.461	18.490	100.313	1.00130.75
ATOM	22168	O	GLU	M	38	116.591	17.808	100.860	1.00130.44
ATOM	22169	CB	GLU	M	38	119.835	19.258	99.897	1.00131.64
ATOM	22170	CG	GLU	M	38	121.327	18.902	99.885	1.00129.83
ATOM	22171	CD	GLU	M	38	122.189	19.927	99.158	1.00128.45
ATOM	22172	OE1	GLU	M	38	121.866	20.276	98.001	1.00127.27
ATOM	22173	OE2	GLU	M	38	123.198	20.375	99.741	1.00127.43
ATOM	22174	N	ASN	M	39	117.178	19.525	99.525	1.00129.83
ATOM	22175	CA	ASN	M	39	115.805	19.939	99.221	1.00127.80
ATOM	22176	C	ASN	M	39	115.831	20.931	98.051	1.00126.58
ATOM	22177	O	ASN	M	39	116.905	21.322	97.589	1.00126.19
ATOM	22178	CB	ASN	M	39	115.139	20.563	100.466	1.00127.19
ATOM	22179	CG	ASN	M	39	114.967	22.075	100.365	1.00125.61
ATOM	22180	OD1	ASN	M	39	115.938	22.823	100.253	1.00125.34
ATOM	22181	ND2	ASN	M	39	113.720	22.528	100.415	1.00124.04
ATOM	22182	N	ALA	M	40	114.658	21.327	97.567	1.00124.81
ATOM	22183	CA	ALA	M	40	114.578	22.256	96.443	1.00123.14
ATOM	22184	C	ALA	M	40	115.447	23.493	96.650	1.00121.99
ATOM	22185	O	ALA	M	40	116.063	23.995	95.708	1.00121.44
ATOM	22186	CB	ALA	M	40	113.133	22.668	96.207	1.00124.04
ATOM	22187	N	ASP	M	41	115.490	23.980	97.887	1.00120.99
ATOM	22188	CA	ASP	M	41	116.284	25.156	98.221	1.00120.16
ATOM	22189	C	ASP	M	41	117.662	24.741	98.716	1.00120.57
ATOM	22190	O	ASP	M	41	118.308	25.458	99.482	1.00119.61
ATOM	22191	CB	ASP	M	41	115.572	25.987	99.289	1.00118.04
ATOM	22192	CG	ASP	M	41	114.208	26.460	98.839	1.00115.22
ATOM	22193	OD1	ASP	M	41	113.337	25.605	98.582	1.00113.90
ATOM	22194	OD2	ASP	M	41	114.005	27.686	98.737	1.00114.47

ATOM	22195	N	GLY	M	42	118.097	23.568	98.268	1.00121.61
ATOM	22196	CA	GLY	M	42	119.397	23.045	98.644	1.00123.27
ATOM	22197	C	GLY	M	42	119.667	22.999	100.134	1.00124.29
ATOM	22198	O	GLY	M	42	120.741	23.396	100.580	1.00124.50
ATOM	22199	N	VAL	M	43	118.703	22.510	100.906	1.00125.58
ATOM	22200	CA	VAL	M	43	118.863	22.418	102.353	1.00127.03
ATOM	22201	C	VAL	M	43	118.765	20.975	102.833	1.00127.90
ATOM	22202	O	VAL	M	43	117.757	20.304	102.615	1.00127.48
ATOM	22203	CB	VAL	M	43	117.797	23.255	103.093	1.00127.23
ATOM	22204	CG1	VAL	M	43	117.990	23.127	104.599	1.00127.47
ATOM	22205	CG2	VAL	M	43	117.886	24.713	102.662	1.00126.40
ATOM	22206	N	LYS	M	44	119.817	20.498	103.487	1.00129.48
ATOM	22207	CA	LYS	M	44	119.818	19.135	103.990	1.00131.07
ATOM	22208	C	LYS	M	44	118.978	19.081	105.255	1.00132.17
ATOM	22209	O	LYS	M	44	118.762	20.102	105.914	1.00131.32
ATOM	22210	CB	LYS	M	44	121.242	18.665	104.296	1.00131.53
ATOM	22211	CG	LYS	M	44	121.829	19.214	105.587	1.00131.98
ATOM	22212	CD	LYS	M	44	123.064	18.431	105.984	1.00132.48
ATOM	22213	CE	LYS	M	44	124.233	18.672	105.039	1.00133.33
ATOM	22214	NZ	LYS	M	44	124.872	19.995	105.285	1.00134.26
ATOM	22215	N	ASP	M	45	118.502	17.886	105.588	1.00134.30
ATOM	22216	CA	ASP	M	45	117.673	17.693	106.770	1.00136.40
ATOM	22217	C	ASP	M	45	117.342	16.219	107.026	1.00137.34
ATOM	22218	O	ASP	M	45	118.058	15.530	107.760	1.00136.43
ATOM	22219	CB	ASP	M	45	116.381	18.508	106.627	1.00137.51
ATOM	22220	CG	ASP	M	45	116.140	18.979	105.200	1.00138.17
ATOM	22221	OD1	ASP	M	45	115.952	18.122	104.309	1.00138.45
ATOM	22222	OD2	ASP	M	45	116.149	20.209	104.973	1.00138.36
ATOM	22223	N	GLY	M	46	116.254	15.743	106.424	1.00138.49
ATOM	22224	CA	GLY	M	46	115.852	14.359	106.605	1.00139.15
ATOM	22225	C	GLY	M	46	114.624	13.982	105.799	1.00139.60
ATOM	22226	O	GLY	M	46	114.070	12.896	105.978	1.00139.82
ATOM	22227	N	ARG	M	47	114.195	14.875	104.911	1.00140.25
ATOM	22228	CA	ARG	M	47	113.024	14.621	104.072	1.00140.74
ATOM	22229	C	ARG	M	47	113.321	13.530	103.052	1.00140.84
ATOM	22230	O	ARG	M	47	112.535	13.292	102.135	1.00140.71
ATOM	22231	CB	ARG	M	47	112.597	15.895	103.333	1.00140.06
ATOM	22232	CG	ARG	M	47	111.196	16.358	103.681	1.00138.61
ATOM	22233	CD	ARG	M	47	111.165	17.038	105.038	1.00137.91
ATOM	22234	NE	ARG	M	47	109.820	17.063	105.606	1.00136.40
ATOM	22235	CZ	ARG	M	47	109.267	16.046	106.260	1.00135.33
ATOM	22236	NH1	ARG	M	47	109.945	14.918	106.438	1.00133.80
ATOM	22237	NH2	ARG	M	47	108.033	16.155	106.733	1.00134.47
ATOM	22238	N	PHE	M	48	114.466	12.878	103.226	1.00141.02
ATOM	22239	CA	PHE	M	48	114.915	11.806	102.345	1.00141.16
ATOM	22240	C	PHE	M	48	116.197	11.214	102.923	1.00141.17
ATOM	22241	O	PHE	M	48	117.170	11.934	103.157	1.00141.78
ATOM	22242	CB	PHE	M	48	115.185	12.350	100.934	1.00141.03
ATOM	22243	CG	PHE	M	48	114.112	12.016	99.928	1.00140.28
ATOM	22244	CD1	PHE	M	48	113.121	11.080	100.219	1.00140.04
ATOM	22245	CD2	PHE	M	48	114.100	12.635	98.683	1.00140.06
ATOM	22246	CE1	PHE	M	48	112.136	10.767	99.285	1.00140.28
ATOM	22247	CE2	PHE	M	48	113.119	12.331	97.741	1.00140.22
ATOM	22248	CZ	PHE	M	48	112.135	11.396	98.042	1.00140.37
ATOM	22249	N	ILE	M	49	116.193	9.906	103.160	1.00140.48
ATOM	22250	CA	ILE	M	49	117.359	9.229	103.712	1.00139.73
ATOM	22251	C	ILE	M	49	118.135	8.504	102.615	1.00139.84
ATOM	22252	O	ILE	M	49	117.576	8.137	101.581	1.00139.13
ATOM	22253	CB	ILE	M	49	116.941	8.224	104.829	1.00138.86
ATOM	22254	CG1	ILE	M	49	116.586	8.983	106.112	1.00138.48
ATOM	22255	CG2	ILE	M	49	118.073	7.255	105.131	1.00138.40
ATOM	22256	CD1	ILE	M	49	115.450	9.972	105.968	1.00139.06

ATOM	22257	N	VAL	M	50	119.434	8.325	102.840	1.00140.65
ATOM	22258	CA	VAL	M	50	120.301	7.639	101.888	1.00141.31
ATOM	22259	C	VAL	M	50	121.042	6.509	102.593	1.00141.88
ATOM	22260	O	VAL	M	50	121.580	6.693	103.687	1.00142.45
ATOM	22261	CB	VAL	M	50	121.339	8.601	101.274	1.00140.95
ATOM	22262	CG1	VAL	M	50	122.179	7.865	100.242	1.00139.08
ATOM	22263	CG2	VAL	M	50	120.636	9.794	100.642	1.00141.03
ATOM	22264	N	THR	M	51	121.062	5.340	101.962	1.00142.12
ATOM	22265	CA	THR	M	51	121.731	4.174	102.527	1.00142.98
ATOM	22266	C	THR	M	51	122.295	3.290	101.416	1.00143.52
ATOM	22267	O	THR	M	51	121.587	2.942	100.473	1.00143.56
ATOM	22268	CB	THR	M	51	120.753	3.340	103.388	1.00143.37
ATOM	22269	OG1	THR	M	51	119.562	3.066	102.637	1.00143.64
ATOM	22270	CG2	THR	M	51	120.384	4.091	104.660	1.00143.67
ATOM	22271	N	PRO	M	52	123.583	2.917	101.509	1.00144.12
ATOM	22272	CA	PRO	M	52	124.548	3.258	102.562	1.00144.70
ATOM	22273	C	PRO	M	52	124.955	4.736	102.560	1.00145.30
ATOM	22274	O	PRO	M	52	125.411	5.266	101.544	1.00144.93
ATOM	22275	CB	PRO	M	52	125.718	2.325	102.263	1.00144.79
ATOM	22276	CG	PRO	M	52	125.663	2.201	100.772	1.00143.82
ATOM	22277	CD	PRO	M	52	124.193	2.017	100.513	1.00143.50
ATOM	22278	N	PRO	M	53	124.801	5.415	103.710	1.00145.93
ATOM	22279	CA	PRO	M	53	125.137	6.836	103.873	1.00146.35
ATOM	22280	C	PRO	M	53	126.619	7.177	103.695	1.00146.46
ATOM	22281	O	PRO	M	53	126.976	8.027	102.876	1.00146.29
ATOM	22282	CB	PRO	M	53	124.629	7.146	105.281	1.00146.54
ATOM	22283	CG	PRO	M	53	124.839	5.850	105.999	1.00146.61
ATOM	22284	CD	PRO	M	53	124.348	4.836	104.989	1.00146.19
ATOM	22285	N	LEU	M	54	127.472	6.515	104.470	1.00146.27
ATOM	22286	CA	LEU	M	54	128.912	6.741	104.407	1.00145.60
ATOM	22287	C	LEU	M	54	129.660	5.410	104.447	1.00145.19
ATOM	22288	O	LEU	M	54	129.399	4.561	105.302	1.00145.29
ATOM	22289	CB	LEU	M	54	129.350	7.643	105.573	1.00145.36
ATOM	22290	CG	LEU	M	54	130.843	7.926	105.794	1.00145.10
ATOM	22291	CD1	LEU	M	54	131.006	9.184	106.630	1.00144.58
ATOM	22292	CD2	LEU	M	54	131.504	6.742	106.483	1.00144.95
ATOM	22293	N	PHE	M	55	130.590	5.234	103.513	1.00144.39
ATOM	22294	CA	PHE	M	55	131.380	4.011	103.435	1.00143.78
ATOM	22295	C	PHE	M	55	132.688	4.258	102.689	1.00143.56
ATOM	22296	O	PHE	M	55	132.826	5.267	101.998	1.00144.22
ATOM	22297	CB	PHE	M	55	130.569	2.909	102.736	1.00143.58
ATOM	22298	CG	PHE	M	55	130.113	3.264	101.337	1.00142.91
ATOM	22299	CD1	PHE	M	55	131.026	3.384	100.291	1.00142.56
ATOM	22300	CD2	PHE	M	55	128.763	3.448	101.062	1.00142.54
ATOM	22301	CE1	PHE	M	55	130.599	3.676	98.996	1.00141.56
ATOM	22302	CE2	PHE	M	55	128.328	3.741	99.768	1.00142.37
ATOM	22303	CZ	PHE	M	55	129.248	3.854	98.735	1.00141.91
ATOM	22304	N	ALA	M	56	133.646	3.344	102.832	1.00142.72
ATOM	22305	CA	ALA	M	56	134.937	3.476	102.156	1.00141.83
ATOM	22306	C	ALA	M	56	134.936	2.719	100.826	1.00141.16
ATOM	22307	O	ALA	M	56	134.680	1.515	100.786	1.00140.18
ATOM	22308	CB	ALA	M	56	136.058	2.961	103.057	1.00141.84
ATOM	22309	N	MET	M	57	135.222	3.430	99.740	1.00141.00
ATOM	22310	CA	MET	M	57	135.244	2.821	98.414	1.00141.49
ATOM	22311	C	MET	M	57	136.645	2.693	97.833	1.00141.47
ATOM	22312	O	MET	M	57	136.927	3.211	96.748	1.00140.47
ATOM	22313	CB	MET	M	57	134.371	3.621	97.451	1.00142.36
ATOM	22314	CG	MET	M	57	133.081	2.925	97.067	1.00143.75
ATOM	22315	SD	MET	M	57	132.061	3.930	95.971	1.00146.98
ATOM	22316	CE	MET	M	57	132.992	3.816	94.427	1.00144.49
ATOM	22317	N	LYS	M	58	137.515	1.995	98.558	1.00141.99
ATOM	22318	CA	LYS	M	58	138.891	1.780	98.125	1.00141.88

ATOM	22319	C	LYS	M	58	138.966	1.419	96.646	1.00142.11
ATOM	22320	O	LYS	M	58	138.026	0.848	96.088	1.00141.64
ATOM	22321	CB	LYS	M	58	139.543	0.668	98.955	1.00141.05
ATOM	22322	CG	LYS	M	58	140.251	1.155	100.207	1.00140.41
ATOM	22323	CD	LYS	M	58	141.718	0.731	100.199	1.00141.51
ATOM	22324	CE	LYS	M	58	142.440	1.215	98.938	1.00142.24
ATOM	22325	NZ	LYS	M	58	143.877	0.816	98.892	1.00140.79
ATOM	22326	N	GLY	M	59	140.090	1.754	96.019	1.00142.31
ATOM	22327	CA	GLY	M	59	140.264	1.460	94.610	1.00142.03
ATOM	22328	C	GLY	M	59	139.140	2.059	93.788	1.00141.95
ATOM	22329	O	GLY	M	59	138.769	3.216	93.989	1.00141.72
ATOM	22330	N	LYS	M	60	138.584	1.263	92.880	1.00141.59
ATOM	22331	CA	LYS	M	60	137.504	1.721	92.012	1.00141.19
ATOM	22332	C	LYS	M	60	136.250	0.833	92.028	1.00141.10
ATOM	22333	O	LYS	M	60	135.661	0.563	90.978	1.00141.01
ATOM	22334	CB	LYS	M	60	138.036	1.862	90.577	1.00140.74
ATOM	22335	CG	LYS	M	60	138.749	0.628	90.029	1.00139.61
ATOM	22336	CD	LYS	M	60	137.830	-0.228	89.170	1.00138.02
ATOM	22337	CE	LYS	M	60	137.535	0.438	87.833	1.00137.35
ATOM	22338	NZ	LYS	M	60	138.754	0.550	86.981	1.00135.79
ATOM	22339	N	LYS	M	61	135.838	0.391	93.216	1.00140.58
ATOM	22340	CA	LYS	M	61	134.651	-0.455	93.341	1.00139.66
ATOM	22341	C	LYS	M	61	133.412	0.267	92.832	1.00139.48
ATOM	22342	O	LYS	M	61	133.453	1.457	92.523	1.00139.45
ATOM	22343	CB	LYS	M	61	134.414	-0.874	94.800	1.00139.48
ATOM	22344	CG	LYS	M	61	135.397	-1.909	95.344	1.00139.78
ATOM	22345	CD	LYS	M	61	134.677	-3.068	96.038	1.00138.44
ATOM	22346	CE	LYS	M	61	133.797	-2.595	97.189	1.00137.76
ATOM	22347	NZ	LYS	M	61	133.046	-3.721	97.817	1.00136.67
ATOM	22348	N	GLU	M	62	132.310	-0.468	92.749	1.00139.43
ATOM	22349	CA	GLU	M	62	131.043	0.084	92.287	1.00139.58
ATOM	22350	C	GLU	M	62	129.987	-0.289	93.321	1.00139.86
ATOM	22351	O	GLU	M	62	129.420	-1.379	93.271	1.00140.42
ATOM	22352	CB	GLU	M	62	130.675	-0.513	90.922	1.00138.67
ATOM	22353	CG	GLU	M	62	129.598	0.244	90.135	1.00137.42
ATOM	22354	CD	GLU	M	62	128.257	0.319	90.848	1.00136.61
ATOM	22355	OE1	GLU	M	62	128.145	1.055	91.854	1.00134.97
ATOM	22356	OE2	GLU	M	62	127.312	-0.361	90.395	1.00136.24
ATOM	22357	N	ASN	M	63	129.731	0.613	94.262	1.00139.99
ATOM	22358	CA	ASN	M	63	128.744	0.353	95.303	1.00140.21
ATOM	22359	C	ASN	M	63	127.539	1.279	95.174	1.00140.18
ATOM	22360	O	ASN	M	63	127.658	2.498	95.323	1.00140.28
ATOM	22361	CB	ASN	M	63	129.395	0.512	96.679	1.00140.73
ATOM	22362	CG	ASN	M	63	130.610	-0.385	96.855	1.00141.51
ATOM	22363	OD1	ASN	M	63	131.592	-0.278	96.114	1.00140.81
ATOM	22364	ND2	ASN	M	63	130.550	-1.279	97.838	1.00141.71
ATOM	22365	N	THR	M	64	126.379	0.685	94.897	1.00139.76
ATOM	22366	CA	THR	M	64	125.134	1.432	94.731	1.00138.97
ATOM	22367	C	THR	M	64	124.731	2.190	96.000	1.00139.02
ATOM	22368	O	THR	M	64	125.542	2.391	96.906	1.00139.72
ATOM	22369	CB	THR	M	64	123.962	0.492	94.319	1.00137.92
ATOM	22370	OG1	THR	M	64	123.675	-0.421	95.383	1.00136.68
ATOM	22371	CG2	THR	M	64	124.324	-0.303	93.071	1.00136.65
ATOM	22372	N	LEU	M	65	123.471	2.614	96.046	1.00138.13
ATOM	22373	CA	LEU	M	65	122.923	3.347	97.183	1.00136.89
ATOM	22374	C	LEU	M	65	121.406	3.219	97.143	1.00136.05
ATOM	22375	O	LEU	M	65	120.846	2.760	96.152	1.00136.03
ATOM	22376	CB	LEU	M	65	123.306	4.827	97.106	1.00137.40
ATOM	22377	CG	LEU	M	65	124.776	5.232	97.242	1.00137.69
ATOM	22378	CD1	LEU	M	65	124.915	6.733	97.025	1.00137.82
ATOM	22379	CD2	LEU	M	65	125.289	4.845	98.618	1.00137.96
ATOM	22380	N	ARG	M	66	120.742	3.625	98.218	1.00135.07

ATOM	22381	CA	ARG	M	66	119.288	3.556	98.281	1.00134.18
ATOM	22382	C	ARG	M	66	118.695	4.899	98.723	1.00133.59
ATOM	22383	O	ARG	M	66	119.273	5.602	99.556	1.00133.01
ATOM	22384	CB	ARG	M	66	118.840	2.445	99.248	1.00134.56
ATOM	22385	CG	ARG	M	66	119.148	1.003	98.801	1.00135.42
ATOM	22386	CD	ARG	M	66	120.438	0.438	99.423	1.00134.67
ATOM	22387	NE	ARG	M	66	120.693	-0.964	99.062	1.00133.10
ATOM	22388	CZ	ARG	M	66	119.920	-1.994	99.409	1.00132.35
ATOM	22389	NH1	ARG	M	66	118.825	-1.801	100.133	1.00132.27
ATOM	22390	NH2	ARG	M	66	120.240	-3.225	99.028	1.00130.49
ATOM	22391	N	ILE	M	67	117.546	5.251	98.150	1.00133.19
ATOM	22392	CA	ILE	M	67	116.856	6.497	98.483	1.00132.33
ATOM	22393	C	ILE	M	67	115.642	6.207	99.377	1.00132.13
ATOM	22394	O	ILE	M	67	114.518	6.051	98.894	1.00131.17
ATOM	22395	CB	ILE	M	67	116.377	7.247	97.201	1.00131.36
ATOM	22396	CG1	ILE	M	67	117.580	7.677	96.357	1.00128.55
ATOM	22397	CG2	ILE	M	67	115.561	8.477	97.583	1.00132.37
ATOM	22398	CD1	ILE	M	67	117.209	8.482	95.124	1.00125.03
ATOM	22399	N	LEU	M	68	115.885	6.133	100.682	1.00132.30
ATOM	22400	CA	LEU	M	68	114.832	5.862	101.656	1.00132.93
ATOM	22401	C	LEU	M	68	114.016	7.130	101.934	1.00133.49
ATOM	22402	O	LEU	M	68	114.364	8.217	101.468	1.00133.75
ATOM	22403	CB	LEU	M	68	115.452	5.343	102.958	1.00132.76
ATOM	22404	CG	LEU	M	68	116.394	4.138	102.846	1.00132.36
ATOM	22405	CD1	LEU	M	68	117.011	3.848	104.204	1.00131.87
ATOM	22406	CD2	LEU	M	68	115.634	2.923	102.330	1.00132.29
ATOM	22407	N	ASP	M	69	112.932	6.988	102.695	1.00133.58
ATOM	22408	CA	ASP	M	69	112.073	8.123	103.025	1.00133.03
ATOM	22409	C	ASP	M	69	111.602	8.053	104.480	1.00132.73
ATOM	22410	O	ASP	M	69	111.113	7.018	104.935	1.00132.74
ATOM	22411	CB	ASP	M	69	110.867	8.154	102.076	1.00132.42
ATOM	22412	CG	ASP	M	69	110.032	9.411	102.230	1.00132.59
ATOM	22413	OD1	ASP	M	69	110.310	10.201	103.159	1.00132.78
ATOM	22414	OD2	ASP	M	69	109.098	9.610	101.423	1.00132.27
ATOM	22415	N	ALA	M	70	111.755	9.157	105.207	1.00132.23
ATOM	22416	CA	ALA	M	70	111.346	9.212	106.607	1.00131.45
ATOM	22417	C	ALA	M	70	110.197	10.190	106.818	1.00131.35
ATOM	22418	O	ALA	M	70	109.516	10.144	107.841	1.00131.16
ATOM	22419	CB	ALA	M	70	112.527	9.604	107.478	1.00130.50
ATOM	22420	N	THR	M	71	109.983	11.071	105.845	1.00131.49
ATOM	22421	CA	THR	M	71	108.915	12.066	105.927	1.00131.43
ATOM	22422	C	THR	M	71	107.546	11.427	106.163	1.00130.19
ATOM	22423	O	THR	M	71	107.429	10.210	106.305	1.00130.16
ATOM	22424	CB	THR	M	71	108.836	12.918	104.633	1.00132.64
ATOM	22425	OG1	THR	M	71	107.966	14.037	104.848	1.00133.41
ATOM	22426	CG2	THR	M	71	108.289	12.093	103.473	1.00132.24
ATOM	22427	N	ASN	M	72	106.514	12.264	106.207	1.00129.22
ATOM	22428	CA	ASN	M	72	105.147	11.799	106.413	1.00128.58
ATOM	22429	C	ASN	M	72	104.346	11.924	105.122	1.00127.07
ATOM	22430	O	ASN	M	72	103.116	12.014	105.149	1.00126.69
ATOM	22431	CB	ASN	M	72	104.458	12.614	107.516	1.00130.54
ATOM	22432	CG	ASN	M	72	105.031	12.342	108.897	1.00132.33
ATOM	22433	OD1	ASN	M	72	104.516	12.840	109.902	1.00131.85
ATOM	22434	ND2	ASN	M	72	106.102	11.551	108.955	1.00132.96
ATOM	22435	N	ASN	M	73	105.049	11.933	103.994	1.00125.21
ATOM	22436	CA	ASN	M	73	104.404	12.053	102.694	1.00122.92
ATOM	22437	C	ASN	M	73	103.768	13.438	102.541	1.00121.04
ATOM	22438	O	ASN	M	73	102.970	13.661	101.630	1.00121.24
ATOM	22439	CB	ASN	M	73	103.326	10.968	102.535	1.00123.36
ATOM	22440	CG	ASN	M	73	103.867	9.556	102.752	1.00122.90
ATOM	22441	OD1	ASN	M	73	104.439	9.248	103.799	1.00121.90
ATOM	22442	ND2	ASN	M	73	103.676	8.690	101.762	1.00122.78

ATOM	22443	N	GLN	M	74	104.126	14.361	103.436	1.00118.83
ATOM	22444	CA	GLN	M	74	103.592	15.726	103.408	1.00116.01
ATOM	22445	C	GLN	M	74	104.210	16.578	102.303	1.00114.96
ATOM	22446	O	GLN	M	74	104.792	17.629	102.577	1.00114.80
ATOM	22447	CB	GLN	M	74	103.813	16.432	104.754	1.00114.72
ATOM	22448	CG	GLN	M	74	102.992	15.881	105.913	1.00112.59
ATOM	22449	CD	GLN	M	74	103.094	16.737	107.168	1.00111.22
ATOM	22450	OE1	GLN	M	74	102.555	16.384	108.219	1.00108.27
ATOM	22451	NE2	GLN	M	74	103.785	17.870	107.062	1.00110.07
ATOM	22452	N	LEU	M	75	104.074	16.120	101.060	1.00113.51
ATOM	22453	CA	LEU	M	75	104.607	16.829	99.897	1.00110.68
ATOM	22454	C	LEU	M	75	103.536	16.858	98.797	1.00109.03
ATOM	22455	O	LEU	M	75	102.783	15.896	98.637	1.00107.97
ATOM	22456	CB	LEU	M	75	105.869	16.118	99.393	1.00110.17
ATOM	22457	CG	LEU	M	75	106.944	15.783	100.437	1.00108.93
ATOM	22458	CD1	LEU	M	75	108.017	14.913	99.804	1.00108.90
ATOM	22459	CD2	LEU	M	75	107.549	17.058	101.000	1.00107.80
ATOM	22460	N	PRO	M	76	103.452	17.965	98.031	1.00108.08
ATOM	22461	CA	PRO	M	76	102.465	18.102	96.952	1.00107.26
ATOM	22462	C	PRO	M	76	102.274	16.814	96.154	1.00107.26
ATOM	22463	O	PRO	M	76	103.240	16.103	95.867	1.00107.18
ATOM	22464	CB	PRO	M	76	103.040	19.233	96.108	1.00106.59
ATOM	22465	CG	PRO	M	76	103.651	20.118	97.141	1.00106.28
ATOM	22466	CD	PRO	M	76	104.361	19.127	98.051	1.00108.14
ATOM	22467	N	GLN	M	77	101.027	16.515	95.799	1.00106.89
ATOM	22468	CA	GLN	M	77	100.736	15.299	95.051	1.00106.83
ATOM	22469	C	GLN	M	77	100.156	15.550	93.662	1.00106.12
ATOM	22470	O	GLN	M	77	99.912	14.611	92.902	1.00106.26
ATOM	22471	CB	GLN	M	77	99.794	14.401	95.855	1.00107.84
ATOM	22472	CG	GLN	M	77	100.251	14.145	97.286	1.00109.33
ATOM	22473	CD	GLN	M	77	101.653	13.543	97.394	1.00110.70
ATOM	22474	OE1	GLN	M	77	102.169	13.345	98.497	1.00110.14
ATOM	22475	NE2	GLN	M	77	102.269	13.249	96.253	1.00110.16
ATOM	22476	N	ASP	M	78	99.926	16.815	93.331	1.00105.07
ATOM	22477	CA	ASP	M	78	99.406	17.153	92.015	1.00103.97
ATOM	22478	C	ASP	M	78	100.593	17.403	91.090	1.00104.55
ATOM	22479	O	ASP	M	78	100.520	17.151	89.889	1.00104.90
ATOM	22480	CB	ASP	M	78	98.510	18.397	92.083	1.00101.46
ATOM	22481	CG	ASP	M	78	99.213	19.601	92.684	1.00 99.36
ATOM	22482	OD1	ASP	M	78	100.370	19.469	93.135	1.00100.07
ATOM	22483	OD2	ASP	M	78	98.604	20.689	92.709	1.00 95.96
ATOM	22484	N	ARG	M	79	101.689	17.885	91.672	1.00104.93
ATOM	22485	CA	ARG	M	79	102.908	18.182	90.930	1.00105.17
ATOM	22486	C	ARG	M	79	104.143	17.602	91.633	1.00106.02
ATOM	22487	O	ARG	M	79	104.022	16.895	92.634	1.00106.04
ATOM	22488	CB	ARG	M	79	103.061	19.696	90.767	1.00104.17
ATOM	22489	CG	ARG	M	79	103.218	20.446	92.075	1.00104.54
ATOM	22490	CD	ARG	M	79	103.380	21.941	91.835	1.00105.44
ATOM	22491	NE	ARG	M	79	102.137	22.574	91.403	1.00104.59
ATOM	22492	CZ	ARG	M	79	101.042	22.656	92.154	1.00104.91
ATOM	22493	NH1	ARG	M	79	101.036	22.140	93.377	1.00104.66
ATOM	22494	NH2	ARG	M	79	99.954	23.260	91.689	1.00103.53
ATOM	22495	N	GLU	M	80	105.326	17.910	91.105	1.00106.29
ATOM	22496	CA	GLU	M	80	106.585	17.416	91.667	1.00105.44
ATOM	22497	C	GLU	M	80	107.223	18.391	92.658	1.00105.77
ATOM	22498	O	GLU	M	80	107.017	19.602	92.574	1.00105.56
ATOM	22499	CB	GLU	M	80	107.580	17.136	90.537	1.00104.62
ATOM	22500	CG	GLU	M	80	107.144	16.059	89.556	1.00102.24
ATOM	22501	CD	GLU	M	80	108.030	15.996	88.323	1.00100.25
ATOM	22502	OE1	GLU	M	80	108.877	16.897	88.138	1.00 97.93
ATOM	22503	OE2	GLU	M	80	107.870	15.047	87.532	1.00 98.18
ATOM	22504	N	SER	M	81	107.996	17.855	93.598	1.00106.15

ATOM	22505	CA	SER M	81	108.688	18.677	94.588	1.00107.02
ATOM	22506	C	SER M	81	110.187	18.441	94.462	1.00108.61
ATOM	22507	O	SER M	81	110.722	17.492	95.030	1.00108.94.
ATOM	22508	CB	SER M	81	108.225	18.332	96.002	1.00105.32
ATOM	22509	OG	SER M	81	106.956	18.896	96.267	1.00103.24
ATOM	22510	N	LEU M	82	110.849	19.317	93.710	1.00109.99
ATOM	22511	CA	LEU M	82	112.286	19.240	93.455	1.00110.96
ATOM	22512	C	LEU M	82	113.161	19.047	94.688	1.00112.51
ATOM	22513	O	LEU M	82	112.973	19.700	95.712	1.00111.72
ATOM	22514	CB	LEU M	82	112.745	20.498	92.716	1.00110.46
ATOM	22515	CG	LEU M	82	114.208	20.570	92.280	1.00109.71
ATOM	22516	CD1	LEU M	82	114.462	19.567	91.173	1.00108.96
ATOM	22517	CD2	LEU M	82	114.523	21.976	91.798	1.00109.59
ATOM	22518	N	PHE M	83	114.121	18.136	94.566	1.00115.14
ATOM	22519	CA	PHE M	83	115.079	17.830	95.626	1.00118.16
ATOM	22520	C	PHE M	83	116.467	17.833	94.991	1.00120.16
ATOM	22521	O	PHE M	83	116.601	18.079	93.786	1.00120.13
ATOM	22522	CB	PHE M	83	114.813	16.447	96.235	1.00118.38
ATOM	22523	CG	PHE M	83	113.750	16.434	97.294	1.00119.50
ATOM	22524	CD1	PHE M	83	112.418	16.663	96.972	1.00119.98
ATOM	22525	CD2	PHE M	83	114.084	16.184	98.621	1.00120.67
ATOM	22526	CE1	PHE M	83	111.428	16.641	97.955	1.00120.02
ATOM	22527	CE2	PHE M	83	113.102	16.159	99.615	1.00121.13
ATOM	22528	CZ	PHE M	83	111.772	16.388	99.280	1.00119.98
ATOM	22529	N	TRP M	84	117.494	17.553	95.792	1.00121.93
ATOM	22530	CA	TRP M	84	118.863	17.522	95.280	1.00122.86
ATOM	22531	C	TRP M	84	119.744	16.445	95.909	1.00122.70
ATOM	22532	O	TRP M	84	119.918	16.393	97.127	1.00121.27
ATOM	22533	CB	TRP M	84	119.535	18.889	95.459	1.00124.08
ATOM	22534	CG	TRP M	84	118.958	19.977	94.595	1.00125.57
ATOM	22535	CD1	TRP M	84	118.188	21.029	95.005	1.00126.20
ATOM	22536	CD2	TRP M	84	119.112	20.122	93.175	1.00126.42
ATOM	22537	NE1	TRP M	84	117.854	21.822	93.930	1.00126.54
ATOM	22538	CE2	TRP M	84	118.407	21.288	92.795	1.00126.91
ATOM	22539	CE3	TRP M	84	119.777	19.379	92.187	1.00126.61
ATOM	22540	CZ2	TRP M	84	118.349	21.731	91.466	1.00126.85
ATOM	22541	CZ3	TRP M	84	119.719	19.820	90.864	1.00126.61
ATOM	22542	CH2	TRP M	84	119.009	20.987	90.519	1.00127.34
ATOM	22543	N	MET M	85	120.291	15.585	95.056	1.00123.64
ATOM	22544	CA	MET M	85	121.180	14.518	95.493	1.00125.56
ATOM	22545	C	MET M	85	122.608	14.910	95.152	1.00125.97
ATOM	22546	O	MET M	85	122.869	15.454	94.079	1.00125.95
ATOM	22547	CB	MET M	85	120.849	13.202	94.787	1.00126.63
ATOM	22548	CG	MET M	85	119.622	12.484	95.309	1.00128.35
ATOM	22549	SD	MET M	85	119.369	10.907	94.462	1.00130.05
ATOM	22550	CE	MET M	85	120.660	9.907	95.217	1.00130.58
ATOM	22551	N	ASN M	86	123.532	14.637	96.064	1.00126.57
ATOM	22552	CA	ASN M	86	124.926	14.969	95.826	1.00127.39
ATOM	22553	C	ASN M	86	125.862	13.916	96.398	1.00128.62
ATOM	22554	O	ASN M	86	125.879	13.672	97.608	1.00129.13
ATOM	22555	CB	ASN M	86	125.260	16.341	96.424	1.00126.20
ATOM	22556	CG	ASN M	86	124.414	17.456	95.837	1.00124.64
ATOM	22557	OD1	ASN M	86	123.226	17.565	96.133	1.00125.05
ATOM	22558	ND2	ASN M	86	125.021	18.285	94.995	1.00122.44
ATOM	22559	N	VAL M	87	126.631	13.285	95.516	1.00129.21
ATOM	22560	CA	VAL M	87	127.591	12.270	95.927	1.00129.98
ATOM	22561	C	VAL M	87	128.960	12.938	96.029	1.00129.89
ATOM	22562	O	VAL M	87	129.494	13.454	95.043	1.00128.54
ATOM	22563	CB	VAL M	87	127.653	11.096	94.913	1.00130.60
ATOM	22564	CG1	VAL M	87	128.662	10.050	95.377	1.00129.79
ATOM	22565	CG2	VAL M	87	126.276	10.461	94.770	1.00130.72
ATOM	22566	N	LYS M	88	129.507	12.936	97.239	1.00130.41

ATOM	22567	CA	LYS	M	88	130.800	13.544	97.508	1.00131.54
ATOM	22568	C	LYS	M	88	131.720	12.529	98.178	1.00132.77
ATOM	22569	O	LYS	M	88	131.493	12.135	99.324	1.00133.33
ATOM	22570	CB	LYS	M	88	130.621	14.759	98.425	1.00130.38
ATOM	22571	CG	LYS	M	88	131.901	15.520	98.722	1.00128.87
ATOM	22572	CD	LYS	M	88	131.695	16.546	99.827	1.00127.48
ATOM	22573	CE	LYS	M	88	131.432	15.873	101.166	1.00126.96
ATOM	22574	NZ	LYS	M	88	131.376	16.846	102.294	1.00126.68
ATOM	22575	N	ALA	M	89	132.755	12.107	97.459	1.00133.66
ATOM	22576	CA	ALA	M	89	133.710	11.139	97.986	1.00134.33
ATOM	22577	C	ALA	M	89	134.885	11.857	98.641	1.00135.06
ATOM	22578	O	ALA	M	89	135.963	11.967	98.055	1.00135.25
ATOM	22579	CB	ALA	M	89	134.204	10.232	96.868	1.00133.86
ATOM	22580	N	ILE	M	90	134.660	12.347	99.857	1.00135.80
ATOM	22581	CA	ILE	M	90	135.684	13.059	100.614	1.00136.66
ATOM	22582	C	ILE	M	90	136.992	12.278	100.582	1.00137.58
ATOM	22583	O	ILE	M	90	137.144	11.285	101.290	1.00137.62
ATOM	22584	CB	ILE	M	90	135.266	13.235	102.087	1.00136.27
ATOM	22585	CG1	ILE	M	90	133.860	13.831	102.164	1.00135.69
ATOM	22586	CG2	ILE	M	90	136.262	14.135	102.801	1.00136.73
ATOM	22587	CD1	ILE	M	90	133.347	14.016	103.578	1.00135.45
ATOM	22588	N	PRO	M	91	137.959	12.720	99.762	1.00138.76
ATOM	22589	CA	PRO	M	91	139.244	12.023	99.672	1.00139.66
ATOM	22590	C	PRO	M	91	140.053	12.131	100.958	1.00140.49
ATOM	22591	O	PRO	M	91	140.303	13.231	101.454	1.00140.43
ATOM	22592	CB	PRO	M	91	139.926	12.718	98.498	1.00139.34
ATOM	22593	CG	PRO	M	91	139.444	14.121	98.642	1.00139.44
ATOM	22594	CD	PRO	M	91	137.967	13.935	98.928	1.00139.11
ATOM	22595	N	SER	M	92	140.450	10.986	101.503	1.00141.42
ATOM	22596	CA	SER	M	92	141.244	10.967	102.724	1.00142.26
ATOM	22597	C	SER	M	92	142.658	11.421	102.374	1.00143.45
ATOM	22598	O	SER	M	92	143.277	10.888	101.449	1.00144.16
ATOM	22599	CB	SER	M	92	141.279	9.556	103.317	1.00141.40
ATOM	22600	OG	SER	M	92	139.979	9.111	103.661	1.00140.68
ATOM	22601	N	MET	M	93	143.158	12.413	103.104	1.00144.01
ATOM	22602	CA	MET	M	93	144.498	12.946	102.871	1.00144.49
ATOM	22603	C	MET	M	93	145.512	11.812	102.744	1.00144.48
ATOM	22604	O	MET	M	93	145.571	10.927	103.596	1.00144.39
ATOM	22605	CB	MET	M	93	144.902	13.861	104.026	1.00145.34
ATOM	22606	CG	MET	M	93	146.224	14.574	103.829	1.00145.89
ATOM	22607	SD	MET	M	93	146.901	15.134	105.398	1.00149.32
ATOM	22608	CE	MET	M	93	145.726	16.409	105.860	1.00148.67
ATOM	22609	N	ASP	M	94	146.312	11.845	101.682	1.00144.88
ATOM	22610	CA	ASP	M	94	147.320	10.814	101.447	1.00145.46
ATOM	22611	C	ASP	M	94	148.382	10.781	102.551	1.00145.90
ATOM	22612	O	ASP	M	94	148.118	11.177	103.686	1.00145.84
ATOM	22613	CB	ASP	M	94	147.989	11.036	100.086	1.00145.07
ATOM	22614	CG	ASP	M	94	146.995	11.045	98.939	1.00144.50
ATOM	22615	OD1	ASP	M	94	145.775	10.952	99.199	1.00144.43
ATOM	22616	OD2	ASP	M	94	147.437	11.147	97.776	1.00143.69
ATOM	22617	N	LYS	M	95	149.581	10.305	102.217	1.00146.48
ATOM	22618	CA	LYS	M	95	150.665	10.220	103.194	1.00146.98
ATOM	22619	C	LYS	M	95	152.054	10.458	102.590	1.00147.78
ATOM	22620	O	LYS	M	95	152.814	9.510	102.386	1.00148.17
ATOM	22621	CB	LYS	M	95	150.657	8.847	103.882	1.00146.95
ATOM	22622	CG	LYS	M	95	149.275	8.281	104.192	1.00146.56
ATOM	22623	CD	LYS	M	95	148.659	7.631	102.960	1.00145.61
ATOM	22624	CE	LYS	M	95	147.230	7.186	103.215	1.00144.63
ATOM	22625	NZ	LYS	M	95	146.342	8.343	103.496	1.00143.88
ATOM	22626	N	SER	M	96	152.379	11.719	102.311	1.00148.61
ATOM	22627	CA	SER	M	96	153.681	12.105	101.750	1.00148.93
ATOM	22628	C	SER	M	96	153.652	13.559	101.287	1.00149.80

ATOM	22629	O	SER M	96	154.618	14.301	101.471	1.00149.44
ATOM	22630	CB	SER M	96	154.068	11.212	100.572	1.00148.22
ATOM	22631	OG	SER M	96	155.369	11.535	100.119	1.00146.58
ATOM	22632	N	LYS M	97	152.541	13.948	100.670	1.00150.98
ATOM	22633	CA	LYS M	97	152.348	15.315	100.199	1.00152.08
ATOM	22634	C	LYS M	97	152.101	16.158	101.448	1.00152.69
ATOM	22635	O	LYS M	97	152.246	17.381	101.439	1.00153.13
ATOM	22636	CB	LYS M	97	151.122	15.390	99.288	1.00151.84
ATOM	22637	CG	LYS M	97	151.210	14.565	98.019	1.00152.00
ATOM	22638	CD	LYS M	97	152.205	15.164	97.050	1.00152.04
ATOM	22639	CE	LYS M	97	151.952	14.667	95.640	1.00152.62
ATOM	22640	NZ	LYS M	97	152.695	15.476	94.636	1.00153.40
ATOM	22641	N	LEU M	98	151.721	15.466	102.517	1.00153.06
ATOM	22642	CA	LEU M	98	151.428	16.066	103.812	1.00153.40
ATOM	22643	C	LEU M	98	152.478	17.087	104.248	1.00154.16
ATOM	22644	O	LEU M	98	152.152	18.080	104.899	1.00154.18
ATOM	22645	CB	LEU M	98	151.289	14.945	104.857	1.00152.71
ATOM	22646	CG	LEU M	98	151.087	15.213	106.353	1.00152.18
ATOM	22647	CD1	LEU M	98	152.429	15.425	107.032	1.00151.87
ATOM	22648	CD2	LEU M	98	150.160	16.401	106.545	1.00152.44
ATOM	22649	N	THR M	99	153.733	16.854	103.872	1.00155.14
ATOM	22650	CA	THR M	99	154.822	17.755	104.243	1.00155.99
ATOM	22651	C	THR M	99	155.070	18.850	103.208	1.00156.40
ATOM	22652	O	THR M	99	156.211	19.251	102.977	1.00155.87
ATOM	22653	CB	THR M	99	156.136	16.975	104.459	1.00156.06
ATOM	22654	OG1	THR M	99	156.598	16.453	103.208	1.00155.84
ATOM	22655	CG2	THR M	99	155.912	15.824	105.434	1.00156.14
ATOM	22656	N	GLU M	100	153.997	19.332	102.590	1.00157.22
ATOM	22657	CA	GLU M	100	154.096	20.385	101.585	1.00158.22
ATOM	22658	C	GLU M	100	152.793	21.180	101.521	1.00158.88
ATOM	22659	O	GLU M	100	151.794	20.801	102.137	1.00158.99
ATOM	22660	CB	GLU M	100	154.376	19.787	100.204	1.00158.57
ATOM	22661	CG	GLU M	100	155.630	18.934	100.100	1.00158.69
ATOM	22662	CD	GLU M	100	155.841	18.387	98.697	1.00158.54
ATOM	22663	OE1	GLU M	100	156.044	19.195	97.766	1.00158.45
ATOM	22664	OE2	GLU M	100	155.798	17.151	98.526	1.00157.90
ATOM	22665	N	ASN M	101	152.813	22.280	100.770	1.00159.07
ATOM	22666	CA	ASN M	101	151.635	23.131	100.606	1.00158.79
ATOM	22667	C	ASN M	101	150.717	22.506	99.558	1.00158.43
ATOM	22668	O	ASN M	101	150.657	22.963	98.416	1.00158.40
ATOM	22669	CB	ASN M	101	152.053	24.535	100.160	1.00158.81
ATOM	22670	CG	ASN M	101	153.027	25.189	101.121	1.00158.78
ATOM	22671	OD1	ASN M	101	154.108	24.663	101.382	1.00158.55
ATOM	22672	ND2	ASN M	101	152.647	26.345	101.652	1.00159.14
ATOM	22673	N	THR M	102	150.000	21.463	99.964	1.00158.09
ATOM	22674	CA	THR M	102	149.097	20.735	99.077	1.00157.51
ATOM	22675	C	THR M	102	147.721	21.373	98.851	1.00156.88
ATOM	22676	O	THR M	102	147.403	22.425	99.410	1.00157.04
ATOM	22677	CB	THR M	102	148.898	19.287	99.589	1.00157.43
ATOM	22678	OG1	THR M	102	148.537	19.309	100.977	1.00156.81
ATOM	22679	CG2	THR M	102	150.177	18.485	99.415	1.00157.19
ATOM	22680	N	LEU M	103	146.920	20.717	98.012	1.00155.45
ATOM	22681	CA	LEU M	103	145.567	21.157	97.667	1.00153.79
ATOM	22682	C	LEU M	103	144.802	19.950	97.124	1.00152.45
ATOM	22683	O	LEU M	103	144.868	19.658	95.931	1.00152.23
ATOM	22684	CB	LEU M	103	145.617	22.253	96.595	1.00153.82
ATOM	22685	CG	LEU M	103	144.285	22.770	96.037	1.00153.04
ATOM	22686	CD1	LEU M	103	143.520	23.527	97.115	1.00152.17
ATOM	22687	CD2	LEU M	103	144.556	23.676	94.851	1.00152.33
ATOM	22688	N	GLN M	104	144.084	19.251	98.002	1.00150.58
ATOM	22689	CA	GLN M	104	143.327	18.065	97.601	1.00148.35
ATOM	22690	C	GLN M	104	141.834	18.368	97.462	1.00146.23

ATOM	22691	O	GLN	M	104	141.195	18.861	98.394	1.00145.88
ATOM	22692	CB	GLN	M	104	143.552	16.936	98.618	1.00149.00
ATOM	22693	CG	GLN	M	104	143.502	15.530	98.025	1.00149.01
ATOM	22694	CD	GLN	M	104	144.055	14.474	98.970	1.00149.07
ATOM	22695	OE1	GLN	M	104	145.194	14.572	99.432	1.00148.79
ATOM	22696	NE2	GLN	M	104	143.253	13.453	99.254	1.00148.53
ATOM	22697	N	LEU	M	105	141.287	18.059	96.290	1.00143.61
ATOM	22698	CA	LEU	M	105	139.881	18.314	96.000	1.00140.89
ATOM	22699	C	LEU	M	105	138.958	17.135	96.279	1.00139.26
ATOM	22700	O	LEU	M	105	139.404	16.004	96.479	1.00138.72
ATOM	22701	CB	LEU	M	105	139.723	18.730	94.536	1.00139.84
ATOM	22702	CG	LEU	M	105	140.675	19.822	94.048	1.00138.73
ATOM	22703	CD1	LEU	M	105	140.378	20.131	92.593	1.00137.43
ATOM	22704	CD2	LEU	M	105	140.526	21.066	94.910	1.00138.62
ATOM	22705	N	ALA	M	106	137.661	17.424	96.282	1.00137.50
ATOM	22706	CA	ALA	M	106	136.622	16.428	96.512	1.00135.70
ATOM	22707	C	ALA	M	106	135.454	16.778	95.596	1.00134.61
ATOM	22708	O	ALA	M	106	134.427	17.283	96.056	1.00135.18
ATOM	22709	CB	ALA	M	106	136.174	16.460	97.964	1.00135.06
ATOM	22710	N	ILE	M	107	135.624	16.517	94.301	1.00132.63
ATOM	22711	CA	ILE	M	107	134.594	16.816	93.310	1.00130.75
ATOM	22712	C	ILE	M	107	133.245	16.205	93.678	1.00130.08
ATOM	22713	O	ILE	M	107	133.123	14.994	93.871	1.00129.64
ATOM	22714	CB	ILE	M	107	134.996	16.320	91.901	1.00129.81
ATOM	22715	CG1	ILE	M	107	136.250	17.056	91.421	1.00129.70
ATOM	22716	CG2	ILE	M	107	133.863	16.576	90.918	1.00128.94
ATOM	22717	CD1	ILE	M	107	137.502	16.757	92.225	1.00130.12
ATOM	22718	N	ILE	M	108	132.236	17.067	93.769	1.00129.02
ATOM	22719	CA	ILE	M	108	130.886	16.653	94.123	1.00127.10
ATOM	22720	C	ILE	M	108	129.981	16.740	92.900	1.00125.45
ATOM	22721	O	ILE	M	108	130.300	17.425	91.931	1.00124.94
ATOM	22722	CB	ILE	M	108	130.317	17.556	95.235	1.00127.56
ATOM	22723	CG1	ILE	M	108	131.365	17.730	96.341	1.00128.45
ATOM	22724	CG2	ILE	M	108	129.042	16.946	95.801	1.00127.18
ATOM	22725	CD1	ILE	M	108	130.962	18.692	97.444	1.00130.01
ATOM	22726	N	SER	M	109	128.854	16.040	92.949	1.00124.03
ATOM	22727	CA	SER	M	109	127.907	16.040	91.841	1.00122.67
ATOM	22728	C	SER	M	109	126.507	16.422	92.313	1.00120.98
ATOM	22729	O	SER	M	109	126.136	16.150	93.456	1.00120.77
ATOM	22730	CB	SER	M	109	127.888	14.659	91.183	1.00123.77
ATOM	22731	OG	SER	M	109	127.895	13.635	92.166	1.00125.66
ATOM	22732	N	ARG	M	110	125.736	17.055	91.433	1.00119.18
ATOM	22733	CA	ARG	M	110	124.381	17.485	91.770	1.00117.95
ATOM	22734	C	ARG	M	110	123.381	17.024	90.711	1.00117.19
ATOM	22735	O	ARG	M	110	123.415	17.481	89.563	1.00116.29
ATOM	22736	CB	ARG	M	110	124.329	19.011	91.897	1.00118.06
ATOM	22737	CG	ARG	M	110	123.104	19.540	92.626	1.00116.61
ATOM	22738	CD	ARG	M	110	122.965	21.047	92.457	1.00116.25
ATOM	22739	NE	ARG	M	110	121.956	21.609	93.354	1.00115.46
ATOM	22740	CZ	ARG	M	110	121.469	22.844	93.258	1.00114.99
ATOM	22741	NH1	ARG	M	110	121.892	23.656	92.298	1.00115.46
ATOM	22742	NH2	ARG	M	110	120.562	23.272	94.128	1.00115.03
ATOM	22743	N	ILE	M	111	122.489	16.120	91.111	1.00116.41
ATOM	22744	CA	ILE	M	111	121.476	15.577	90.211	1.00114.95
ATOM	22745	C	ILE	M	111	120.066	15.968	90.636	1.00113.56
ATOM	22746	O	ILE	M	111	119.844	16.453	91.745	1.00113.00
ATOM	22747	CB	ILE	M	111	121.552	14.022	90.139	1.00115.39
ATOM	22748	CG1	ILE	M	111	121.356	13.418	91.534	1.00114.83
ATOM	22749	CG2	ILE	M	111	122.894	13.586	89.561	1.00115.31
ATOM	22750	CD1	ILE	M	111	121.430	11.898	91.571	1.00112.80
ATOM	22751	N	LYS	M	112	119.116	15.743	89.740	1.00112.34
ATOM	22752	CA	LYS	M	112	117.720	16.056	90.000	1.00112.07

ATOM	22753	C	LYS	M	112	117.003	14.845	90.597	1.00111.14
ATOM	22754	O	LYS	M	112	117.079	13.746	90.051	1.00111.26
ATOM	22755	CB	LYS	M	112	117.023	16.450	88.697	1.00112.47
ATOM	22756	CG	LYS	M	112	117.604	17.665	87.990	1.00112.60
ATOM	22757	CD	LYS	M	112	117.096	18.955	88.597	1.00110.92
ATOM	22758	CE	LYS	M	112	117.433	20.136	87.710	1.00110.43
ATOM	22759	NZ	LYS	M	112	116.859	21.394	88.256	1.00110.72
ATOM	22760	N	LEU	M	113	116.313	15.047	91.716	1.00109.97
ATOM	22761	CA	LEU	M	113	115.560	13.971	92.360	1.00108.48
ATOM	22762	C	LEU	M	113	114.097	14.383	92.446	1.00108.58
ATOM	22763	O	LEU	M	113	113.641	14.890	93.473	1.00108.25
ATOM	22764	CB	LEU	M	113	116.094	13.685	93.768	1.00106.14
ATOM	22765	CG	LEU	M	113	115.310	12.669	94.609	1.00102.16
ATOM	22766	CD1	LEU	M	113	115.267	11.329	93.908	1.00102.06
ATOM	22767	CD2	LEU	M	113	115.962	12.523	95.963	1.00101.59
ATOM	22768	N	TYR	M	114	113.366	14.161	91.360	1.00108.85
ATOM	22769	CA	TYR	M	114	111.960	14.521	91.305	1.00109.18
ATOM	22770	C	TYR	M	114	111.027	13.612	92.084	1.00110.13
ATOM	22771	O	TYR	M	114	110.808	12.460	91.705	1.00108.86
ATOM	22772	CB	TYR	M	114	111.479	14.564	89.858	1.00107.73
ATOM	22773	CG	TYR	M	114	112.034	15.702	89.043	1.00107.03
ATOM	22774	CD1	TYR	M	114	112.993	16.566	89.568	1.00106.01
ATOM	22775	CD2	TYR	M	114	111.605	15.907	87.735	1.00107.37
ATOM	22776	CE1	TYR	M	114	113.512	17.603	88.808	1.00106.95
ATOM	22777	CE2	TYR	M	114	112.114	16.938	86.967	1.00107.79
ATOM	22778	CZ	TYR	M	114	113.068	17.782	87.508	1.00108.08
ATOM	22779	OH	TYR	M	114	113.585	18.795	86.736	1.00109.27
ATOM	22780	N	TYR	M	115	110.486	14.135	93.180	1.00112.02
ATOM	22781	CA	TYR	M	115	109.520	13.389	93.969	1.00113.75
ATOM	22782	C	TYR	M	115	108.248	13.538	93.142	1.00114.68
ATOM	22783	O	TYR	M	115	107.507	14.515	93.292	1.00114.10
ATOM	22784	CB	TYR	M	115	109.322	14.025	95.346	1.00113.85
ATOM	22785	CG	TYR	M	115	108.084	13.523	96.066	1.00115.56
ATOM	22786	CD1	TYR	M	115	107.996	12.206	96.521	1.00116.05
ATOM	22787	CD2	TYR	M	115	106.991	14.366	96.281	1.00115.86
ATOM	22788	CE1	TYR	M	115	106.848	11.743	97.177	1.00116.06
ATOM	22789	CE2	TYR	M	115	105.840	13.913	96.933	1.00115.31
ATOM	22790	CZ	TYR	M	115	105.775	12.605	97.379	1.00115.42
ATOM	22791	OH	TYR	M	115	104.644	12.171	98.037	1.00113.57
ATOM	22792	N	ARG	M	116	108.020	12.578	92.249	1.00115.51
ATOM	22793	CA	ARG	M	116	106.857	12.603	91.373	1.00116.24
ATOM	22794	C	ARG	M	116	105.684	11.796	91.918	1.00117.15
ATOM	22795	O	ARG	M	116	105.805	10.599	92.188	1.00117.31
ATOM	22796	CB	ARG	M	116	107.238	12.083	89.990	1.00115.42
ATOM	22797	CG	ARG	M	116	106.136	12.214	88.963	1.00115.34
ATOM	22798	CD	ARG	M	116	106.634	11.765	87.609	1.00116.00
ATOM	22799	NE	ARG	M	116	107.711	12.618	87.120	1.00115.04
ATOM	22800	CZ	ARG	M	116	108.447	12.348	86.046	1.00114.90
ATOM	22801	NH1	ARG	M	116	108.225	11.242	85.348	1.00114.34
ATOM	22802	NH2	ARG	M	116	109.397	13.190	85.664	1.00115.54
ATOM	22803	N	PRO	M	117	104.524	12.453	92.084	1.00117.34
ATOM	22804	CA	PRO	M	117	103.299	11.833	92.597	1.00117.50
ATOM	22805	C	PRO	M	117	102.778	10.690	91.729	1.00117.82
ATOM	22806	O	PRO	M	117	102.791	10.775	90.502	1.00117.96
ATOM	22807	CB	PRO	M	117	102.321	13.003	92.640	1.00117.78
ATOM	22808	CG	PRO	M	117	103.212	14.178	92.875	1.00116.78
ATOM	22809	CD	PRO	M	117	104.336	13.905	91.920	1.00116.26
ATOM	22810	N	ALA	M	118	102.318	9.625	92.376	1.00118.29
ATOM	22811	CA	ALA	M	118	101.773	8.474	91.668	1.00118.80
ATOM	22812	C	ALA	M	118	100.269	8.677	91.549	1.00119.17
ATOM	22813	O	ALA	M	118	99.481	7.996	92.207	1.00119.49
ATOM	22814	CB	ALA	M	118	102.075	7.192	92.430	1.00117.62

ATOM	22815	N	LYS	M	119	99.882	9.629	90.708	1.00119.41
ATOM	22816	CA	LYS	M	119	98.478	9.949	90.498	1.00119.50
ATOM	22817	C	LYS	M	119	98.434	11.130	89.531	1.00119.03
ATOM	22818	O	LYS	M	119	97.702	12.097	89.740	1.00119.14
ATOM	22819	CB	LYS	M	119	97.828	10.328	91.838	1.00120.00
ATOM	22820	CG	LYS	M	119	96.303	10.334	91.848	1.00120.24
ATOM	22821	CD	LYS	M	119	95.733	8.926	91.757	1.00119.89
ATOM	22822	CE	LYS	M	119	94.212	8.949	91.746	1.00118.51
ATOM	22823	NZ	LYS	M	119	93.641	7.580	91.634	1.00119.42
ATOM	22824	N	LEU	M	120	99.229	11.046	88.469	1.00118.54
ATOM	22825	CA	LEU	M	120	99.284	12.122	87.488	1.00119.53
ATOM	22826	C	LEU	M	120	98.628	11.754	86.152	1.00119.60
ATOM	22827	O	LEU	M	120	98.858	10.670	85.610	1.00119.47
ATOM	22828	CB	LEU	M	120	100.744	12.542	87.269	1.00119.62
ATOM	22829	CG	LEU	M	120	101.550	12.918	88.522	1.00120.08
ATOM	22830	CD1	LEU	M	120	102.934	13.401	88.107	1.00119.27
ATOM	22831	CD2	LEU	M	120	100.830	14.004	89.316	1.00119.59
ATOM	22832	N	ALA	M	121	97.811	12.670	85.631	1.00119.86
ATOM	22833	CA	ALA	M	121	97.104	12.472	84.364	1.00120.74
ATOM	22834	C	ALA	M	121	98.047	12.508	83.167	1.00121.32
ATOM	22835	O	ALA	M	121	98.377	11.472	82.583	1.00120.58
ATOM	22836	CB	ALA	M	121	96.030	13.541	84.199	1.00120.01
ATOM	22837	N	LEU	M	122	98.462	13.718	82.808	1.00122.34
ATOM	22838	CA	LEU	M	122	99.370	13.946	81.690	1.00123.83
ATOM	22839	C	LEU	M	122	100.717	13.257	81.933	1.00126.09
ATOM	22840	O	LEU	M	122	101.541	13.759	82.698	1.00126.20
ATOM	22841	CB	LEU	M	122	99.585	15.450	81.514	1.00121.42
ATOM	22842	CG	LEU	M	122	100.388	15.911	80.301	1.00119.81
ATOM	22843	CD1	LEU	M	122	99.613	15.615	79.035	1.00119.48
ATOM	22844	CD2	LEU	M	122	100.651	17.389	80.409	1.00118.53
ATOM	22845	N	PRO	M	123	100.962	12.104	81.276	1.00128.45
ATOM	22846	CA	PRO	M	123	102.222	11.366	81.443	1.00129.75
ATOM	22847	C	PRO	M	123	103.455	12.176	81.027	1.00130.94
ATOM	22848	O	PRO	M	123	103.343	13.164	80.296	1.00129.90
ATOM	22849	CB	PRO	M	123	102.012	10.126	80.570	1.00128.83
ATOM	22850	CG	PRO	M	123	101.157	10.647	79.465	1.00128.51
ATOM	22851	CD	PRO	M	123	100.139	11.486	80.219	1.00129.05
ATOM	22852	N	PRO	M	124	104.650	11.763	81.489	1.00132.56
ATOM	22853	CA	PRO	M	124	105.896	12.464	81.155	1.00133.46
ATOM	22854	C	PRO	M	124	106.172	12.459	79.655	1.00134.40
ATOM	22855	O	PRO	M	124	107.167	13.018	79.194	1.00134.98
ATOM	22856	CB	PRO	M	124	106.949	11.685	81.942	1.00133.14
ATOM	22857	CG	PRO	M	124	106.397	10.290	81.942	1.00133.27
ATOM	22858	CD	PRO	M	124	104.933	10.533	82.254	1.00133.25
ATOM	22859	N	ASP	M	125	105.274	11.826	78.906	1.00135.37
ATOM	22860	CA	ASP	M	125	105.390	11.718	77.456	1.00136.16
ATOM	22861	C	ASP	M	125	104.833	12.950	76.737	1.00136.16
ATOM	22862	O	ASP	M	125	105.412	13.422	75.757	1.00135.47
ATOM	22863	CB	ASP	M	125	104.651	10.460	76.969	1.00137.71
ATOM	22864	CG	ASP	M	125	105.264	9.165	77.501	1.00139.02
ATOM	22865	OD1	ASP	M	125	105.518	9.076	78.724	1.00140.34
ATOM	22866	OD2	ASP	M	125	105.480	8.231	76.694	1.00138.98
ATOM	22867	N	GLN	M	126	103.710	13.464	77.230	1.00136.84
ATOM	22868	CA	GLN	M	126	103.063	14.631	76.634	1.00137.03
ATOM	22869	C	GLN	M	126	103.124	15.851	77.550	1.00137.17
ATOM	22870	O	GLN	M	126	102.273	16.741	77.485	1.00136.49
ATOM	22871	CB	GLN	M	126	101.607	14.296	76.299	1.00136.61
ATOM	22872	CG	GLN	M	126	101.457	13.186	75.262	1.00136.83
ATOM	22873	CD	GLN	M	126	100.526	12.071	75.713	1.00137.59
ATOM	22874	OE1	GLN	M	126	100.239	11.141	74.955	1.00136.83
ATOM	22875	NE2	GLN	M	126	100.053	12.156	76.953	1.00137.58
ATOM	22876	N	ALA	M	127	104.146	15.883	78.398	1.00138.15

ATOM	22877	CA	ALA	M	127	104.340	16.982	79.336	1.00139.29
ATOM	22878	C	ALA	M	127	105.350	17.990	78.796	1.00139.82
ATOM	22879	O	ALA	M	127	105.155	19.200	78.915	1.00139.88
ATOM	22880	CB	ALA	M	127	104.812	16.440	80.681	1.00139.54
ATOM	22881	N	ALA	M	128	106.430	17.482	78.205	1.00140.47
ATOM	22882	CA	ALA	M	128	107.476	18.331	77.640	1.00140.53
ATOM	22883	C	ALA	M	128	107.168	18.686	76.184	1.00140.93
ATOM	22884	O	ALA	M	128	107.996	18.475	75.296	1.00141.00
ATOM	22885	CB	ALA	M	128	108.826	17.623	77.733	1.00139.28
ATOM	22886	N	GLU	M	129	105.976	19.232	75.951	1.00141.59
ATOM	22887	CA	GLU	M	129	105.536	19.616	74.609	1.00141.87
ATOM	22888	C	GLU	M	129	104.392	20.627	74.661	1.00140.82
ATOM	22889	O	GLU	M	129	103.779	20.942	73.640	1.00140.23
ATOM	22890	CB	GLU	M	129	105.099	18.367	73.830	1.00144.01
ATOM	22891	CG	GLU	M	129	104.155	17.442	74.601	1.00147.77
ATOM	22892	CD	GLU	M	129	104.011	16.066	73.958	1.00149.55
ATOM	22893	OE1	GLU	M	129	105.041	15.381	73.770	1.00150.60
ATOM	22894	OE2	GLU	M	129	102.867	15.665	73.650	1.00151.13
ATOM	22895	N	LYS	M	130	104.121	21.139	75.858	1.00139.87
ATOM	22896	CA	LYS	M	130	103.050	22.105	76.066	1.00138.86
ATOM	22897	C	LYS	M	130	103.601	23.478	76.439	1.00138.36
ATOM	22898	O	LYS	M	130	102.839	24.421	76.653	1.00138.03
ATOM	22899	CB	LYS	M	130	102.129	21.617	77.181	1.00139.21
ATOM	22900	CG	LYS	M	130	101.594	20.207	76.987	1.00139.21
ATOM	22901	CD	LYS	M	130	100.768	19.775	78.190	1.00140.35
ATOM	22902	CE	LYS	M	130	99.605	20.734	78.445	1.00140.64
ATOM	22903	NZ	LYS	M	130	98.873	20.436	79.710	1.00139.73
ATOM	22904	N	LEU	M	131	104.925	23.577	76.517	1.00137.87
ATOM	22905	CA	LEU	M	131	105.609	24.819	76.874	1.00137.86
ATOM	22906	C	LEU	M	131	104.993	26.038	76.184	1.00138.82
ATOM	22907	O	LEU	M	131	105.175	26.234	74.983	1.00139.29
ATOM	22908	CB	LEU	M	131	107.094	24.712	76.505	1.00135.98
ATOM	22909	CG	LEU	M	131	108.038	25.820	76.981	1.00135.34
ATOM	22910	CD1	LEU	M	131	108.157	25.776	78.496	1.00134.92
ATOM	22911	CD2	LEU	M	131	109.404	25.637	76.346	1.00134.68
ATOM	22912	N	ARG	M	132	104.271	26.856	76.947	1.00139.63
ATOM	22913	CA	ARG	M	132	103.631	28.053	76.402	1.00141.05
ATOM	22914	C	ARG	M	132	104.515	29.289	76.576	1.00142.09
ATOM	22915	O	ARG	M	132	105.243	29.403	77.564	1.00142.33
ATOM	22916	CB	ARG	M	132	102.278	28.281	77.078	1.00142.08
ATOM	22917	CG	ARG	M	132	101.339	27.079	77.022	1.00143.58
ATOM	22918	CD	ARG	M	132	99.894	27.493	77.274	1.00144.88
ATOM	22919	NE	ARG	M	132	99.710	28.081	78.600	1.00145.40
ATOM	22920	CZ	ARG	M	132	98.587	28.659	79.017	1.00144.69
ATOM	22921	NH1	ARG	M	132	97.535	28.734	78.211	1.00144.35
ATOM	22922	NH2	ARG	M	132	98.517	29.158	80.244	1.00143.25
ATOM	22923	N	PHE	M	133	104.435	30.220	75.625	1.00143.09
ATOM	22924	CA	PHE	M	133	105.256	31.436	75.656	1.00143.22
ATOM	22925	C	PHE	M	133	104.510	32.765	75.827	1.00142.71
ATOM	22926	O	PHE	M	133	103.504	33.026	75.164	1.00142.10
ATOM	22927	CB	PHE	M	133	106.120	31.508	74.388	1.00144.16
ATOM	22928	CG	PHE	M	133	107.118	30.385	74.264	1.00144.65
ATOM	22929	CD1	PHE	M	133	106.696	29.064	74.132	1.00144.49
ATOM	22930	CD2	PHE	M	133	108.483	30.647	74.302	1.00144.60
ATOM	22931	CE1	PHE	M	133	107.621	28.024	74.042	1.00143.98
ATOM	22932	CE2	PHE	M	133	109.412	29.613	74.212	1.00144.21
ATOM	22933	CZ	PHE	M	133	108.978	28.300	74.083	1.00143.77
ATOM	22934	N	ARG	M	134	105.031	33.604	76.718	1.00142.64
ATOM	22935	CA	ARG	M	134	104.458	34.920	76.997	1.00142.89
ATOM	22936	C	ARG	M	134	105.581	35.946	76.913	1.00142.77
ATOM	22937	O	ARG	M	134	105.658	36.870	77.727	1.00142.40
ATOM	22938	CB	ARG	M	134	103.847	34.963	78.405	1.00143.49

ATOM	22939	CG	ARG	M	134	103.070	36.249	78.717	1.00141.87
ATOM	22940	CD	ARG	M	134	103.264	36.708	80.162	1.00139.90
ATOM	22941	NE	ARG	M	134	102.916	35.680	81.139	1.00138.01
ATOM	22942	CZ	ARG	M	134	103.054	35.823	82.454	1.00136.89
ATOM	22943	NH1	ARG	M	134	103.533	36.954	82.955	1.00135.82
ATOM	22944	NH2	ARG	M	134	102.726	34.830	83.268	1.00135.97
ATOM	22945	N	ARG	M	135	106.458	35.769	75.931	1.00142.74
ATOM	22946	CA	ARG	M	135	107.589	36.671	75.742	1.00143.05
ATOM	22947	C	ARG	M	135	107.153	38.128	75.897	1.00143.10
ATOM	22948	O	ARG	M	135	106.108	38.533	75.382	1.00143.90
ATOM	22949	CB	ARG	M	135	108.212	36.456	74.356	1.00142.47
ATOM	22950	CG	ARG	M	135	107.530	37.210	73.219	1.00141.03
ATOM	22951	CD	ARG	M	135	108.208	38.551	72.978	1.00138.56
ATOM	22952	NE	ARG	M	135	109.545	38.381	72.419	1.00135.88
ATOM	22953	CZ	ARG	M	135	110.417	39.369	72.255	1.00135.43
ATOM	22954	NH1	ARG	M	135	110.101	40.601	72.624	1.00134.80
ATOM	22955	NH2	ARG	M	135	111.610	39.123	71.733	1.00136.06
ATOM	22956	N	SER	M	136	107.957	38.906	76.614	1.00142.24
ATOM	22957	CA	SER	M	136	107.664	40.316	76.839	1.00140.60
ATOM	22958	C	SER	M	136	108.602	41.154	75.984	1.00139.45
ATOM	22959	O	SER	M	136	109.124	40.675	74.979	1.00139.13
ATOM	22960	CB	SER	M	136	107.857	40.663	78.318	1.00140.90
ATOM	22961	OG	SER	M	136	107.048	39.839	79.143	1.00141.18
ATOM	22962	N	ALA	M	137	108.810	42.405	76.378	1.00138.46
ATOM	22963	CA	ALA	M	137	109.703	43.284	75.639	1.00137.94
ATOM	22964	C	ALA	M	137	111.046	42.568	75.476	1.00137.61
ATOM	22965	O	ALA	M	137	111.302	41.943	74.447	1.00137.55
ATOM	22966	CB	ALA	M	137	109.882	44.596	76.390	1.00138.24
ATOM	22967	N	ASN	M	138	111.899	42.653	76.493	1.00136.97
ATOM	22968	CA	ASN	M	138	113.196	41.989	76.445	1.00136.10
ATOM	22969	C	ASN	M	138	113.200	40.799	77.401	1.00136.52
ATOM	22970	O	ASN	M	138	114.191	40.531	78.080	1.00136.77
ATOM	22971	CB	ASN	M	138	114.326	42.971	76.802	1.00134.38
ATOM	22972	CG	ASN	M	138	114.195	43.544	78.203	1.00132.56
ATOM	22973	OD1	ASN	M	138	114.195	42.812	79.191	1.00132.60
ATOM	22974	ND2	ASN	M	138	114.093	44.864	78.294	1.00130.70
ATOM	22975	N	SER	M	139	112.078	40.086	77.442	1.00136.73
ATOM	22976	CA	SER	M	139	111.932	38.922	78.311	1.00137.08
ATOM	22977	C	SER	M	139	111.226	37.778	77.591	1.00136.61
ATOM	22978	O	SER	M	139	110.600	37.975	76.548	1.00136.58
ATOM	22979	CB	SER	M	139	111.132	39.291	79.568	1.00137.90
ATOM	22980	OG	SER	M	139	111.787	40.290	80.332	1.00138.66
ATOM	22981	N	LEU	M	140	111.334	36.580	78.155	1.00136.07
ATOM	22982	CA	LEU	M	140	110.695	35.400	77.588	1.00135.59
ATOM	22983	C	LEU	M	140	110.004	34.610	78.688	1.00135.85
ATOM	22984	O	LEU	M	140	110.474	33.546	79.099	1.00135.50
ATOM	22985	CB	LEU	M	140	111.721	34.513	76.884	1.00134.65
ATOM	22986	CG	LEU	M	140	111.585	34.457	75.362	1.00133.52
ATOM	22987	CD1	LEU	M	140	112.625	33.513	74.794	1.00133.16
ATOM	22988	CD2	LEU	M	140	110.190	33.992	74.987	1.00132.45
ATOM	22989	N	THR	M	141	108.882	35.145	79.159	1.00135.94
ATOM	22990	CA	THR	M	141	108.108	34.513	80.217	1.00135.49
ATOM	22991	C	THR	M	141	107.564	33.160	79.758	1.00135.40
ATOM	22992	O	THR	M	141	106.469	33.070	79.197	1.00135.65
ATOM	22993	CB	THR	M	141	106.944	35.428	80.663	1.00135.18
ATOM	22994	OG1	THR	M	141	107.465	36.705	81.057	1.00134.29
ATOM	22995	CG2	THR	M	141	106.206	34.817	81.842	1.00135.29
ATOM	22996	N	LEU	M	142	108.351	32.113	79.998	1.00134.96
ATOM	22997	CA	LEU	M	142	107.989	30.747	79.630	1.00134.38
ATOM	22998	C	LEU	M	142	107.130	30.150	80.746	1.00133.87
ATOM	22999	O	LEU	M	142	107.424	30.346	81.927	1.00133.36
ATOM	23000	CB	LEU	M	142	109.255	29.904	79.456	1.00134.28

ATOM	23001	CG	LEU	M	142	110.442	30.563	78.748	1.00133.90
ATOM	23002	CD1	LEU	M	142	111.645	29.635	78.790	1.00133.92
ATOM	23003	CD2	LEU	M	142	110.071	30.897	77.319	1.00133.56
ATOM	23004	N	ILE	M	143	106.080	29.418	80.380	1.00133.01
ATOM	23005	CA	ILE	M	143	105.205	28.820	81.384	1.00131.37
ATOM	23006	C	ILE	M	143	104.885	27.343	81.145	1.00129.48
ATOM	23007	O	ILE	M	143	104.595	26.930	80.023	1.00129.06
ATOM	23008	CB	ILE	M	143	103.880	29.624	81.508	1.00132.05
ATOM	23009	CG1	ILE	M	143	102.992	29.003	82.592	1.00132.58
ATOM	23010	CG2	ILE	M	143	103.178	29.687	80.158	1.00130.32
ATOM	23011	CD1	ILE	M	143	101.779	29.841	82.961	1.00133.72
ATOM	23012	N	ASN	M	144	104.947	26.556	82.218	1.00127.26
ATOM	23013	CA	ASN	M	144	104.670	25.123	82.163	1.00124.55
ATOM	23014	C	ASN	M	144	103.560	24.729	83.134	1.00122.76
ATOM	23015	O	ASN	M	144	103.643	25.005	84.328	1.00121.55
ATOM	23016	CB	ASN	M	144	105.943	24.328	82.477	1.00124.88
ATOM	23017	CG	ASN	M	144	105.654	22.914	82.943	1.00124.98
ATOM	23018	OD1	ASN	M	144	104.891	22.182	82.313	1.00125.84
ATOM	23019	ND2	ASN	M	144	106.271	22.519	84.051	1.00124.35
ATOM	23020	N	PRO	M	145	102.501	24.081	82.620	1.00121.70
ATOM	23021	CA	PRO	M	145	101.353	23.632	83.416	1.00120.09
ATOM	23022	C	PRO	M	145	101.550	22.235	84.002	1.00118.41
ATOM	23023	O	PRO	M	145	101.237	21.988	85.161	1.00116.74
ATOM	23024	CB	PRO	M	145	100.216	23.667	82.404	1.00120.70
ATOM	23025	CG	PRO	M	145	100.900	23.177	81.158	1.00120.71
ATOM	23026	CD	PRO	M	145	102.224	23.933	81.176	1.00121.37
ATOM	23027	N	THR	M	146	102.065	21.326	83.182	1.00117.65
ATOM	23028	CA	THR	M	146	102.303	19.949	83.595	1.00116.44
ATOM	23029	C	THR	M	146	102.974	19.921	84.961	1.00116.67
ATOM	23030	O	THR	M	146	103.709	20.841	85.316	1.00116.34
ATOM	23031	CB	THR	M	146	103.221	19.223	82.603	1.00115.02
ATOM	23032	OG1	THR	M	146	104.573	19.635	82.825	1.00114.11
ATOM	23033	CG2	THR	M	146	102.840	19.569	81.174	1.00114.63
ATOM	23034	N	PRO	M	147	102.723	18.862	85.748	1.00116.80
ATOM	23035	CA	PRO	M	147	103.298	18.692	87.087	1.00116.54
ATOM	23036	C	PRO	M	147	104.754	18.202	87.128	1.00116.91
ATOM	23037	O	PRO	M	147	105.202	17.673	88.148	1.00116.25
ATOM	23038	CB	PRO	M	147	102.340	17.704	87.739	1.00116.47
ATOM	23039	CG	PRO	M	147	101.934	16.843	86.589	1.00116.50
ATOM	23040	CD	PRO	M	147	101.666	17.862	85.507	1.00116.73
ATOM	23041	N	TYR	M	148	105.484	18.380	86.024	1.00117.30
ATOM	23042	CA	TYR	M	148	106.891	17.968	85.934	1.00116.51
ATOM	23043	C	TYR	M	148	107.764	19.176	85.598	1.00116.20
ATOM	23044	O	TYR	M	148	107.288	20.149	85.013	1.00116.45
ATOM	23045	CB	TYR	M	148	107.090	16.914	84.835	1.00115.32
ATOM	23046	CG	TYR	M	148	106.012	15.858	84.768	1.00116.12
ATOM	23047	CD1	TYR	M	148	104.753	16.146	84.238	1.00116.06
ATOM	23048	CD2	TYR	M	148	106.243	14.569	85.243	1.00116.64
ATOM	23049	CE1	TYR	M	148	103.751	15.177	84.184	1.00115.73
ATOM	23050	CE2	TYR	M	148	105.249	13.592	85.194	1.00116.76
ATOM	23051	CZ	TYR	M	148	104.006	13.902	84.665	1.00116.10
ATOM	23052	OH	TYR	M	148	103.025	12.936	84.622	1.00114.36
ATOM	23053	N	TYR	M	149	109.039	19.121	85.964	1.00115.69
ATOM	23054	CA	TYR	M	149	109.938	20.222	85.651	1.00115.24
ATOM	23055	C	TYR	M	149	110.537	20.020	84.260	1.00116.30
ATOM	23056	O	TYR	M	149	111.570	19.367	84.112	1.00116.63
ATOM	23057	CB	TYR	M	149	111.078	20.307	86.660	1.00113.72
ATOM	23058	CG	TYR	M	149	110.717	20.847	88.019	1.00111.66
ATOM	23059	CD1	TYR	M	149	110.303	19.997	89.038	1.00112.11
ATOM	23060	CD2	TYR	M	149	110.846	22.205	88.305	1.00110.42
ATOM	23061	CE1	TYR	M	149	110.034	20.483	90.317	1.00111.32
ATOM	23062	CE2	TYR	M	149	110.579	22.704	89.576	1.00109.14

ATOM	23063	CZ	TYR	M	149	110.174	21.836	90.581	1.00109.93
ATOM	23064	OH	TYR	M	149	109.918	22.309	91.852	1.00107.27
ATOM	23065	N	LEU	M	150	109.888	20.578	83.245	1.00117.32
ATOM	23066	CA	LEU	M	150	110.369	20.459	81.871	1.00118.45
ATOM	23067	C	LEU	M	150	111.701	21.182	81.716	1.00119.74
ATOM	23068	O	LEU	M	150	111.733	22.356	81.343	1.00119.65
ATOM	23069	CB	LEU	M	150	109.368	21.080	80.899	1.00118.75
ATOM	23070	CG	LEU	M	150	107.900	20.691	81.041	1.00119.57
ATOM	23071	CD1	LEU	M	150	107.077	21.459	80.016	1.00119.83
ATOM	23072	CD2	LEU	M	150	107.745	19.190	80.856	1.00120.76
ATOM	23073	N	THR	M	151	112.798	20.487	81.998	1.00121.28
ATOM	23074	CA	THR	M	151	114.118	21.091	81.876	1.00122.12
ATOM	23075	C	THR	M	151	114.296	21.628	80.462	1.00123.50
ATOM	23076	O	THR	M	151	114.534	20.865	79.526	1.00123.25
ATOM	23077	CB	THR	M	151	115.225	20.069	82.168	1.00121.64
ATOM	23078	OG1	THR	M	151	115.031	19.521	83.478	1.00121.65
ATOM	23079	CG2	THR	M	151	116.591	20.732	82.098	1.00121.18
ATOM	23080	N	VAL	M	152	114.167	22.944	80.314	1.00125.31
ATOM	23081	CA	VAL	M	152	114.305	23.602	79.017	1.00126.68
ATOM	23082	C	VAL	M	152	115.767	23.711	78.596	1.00127.55
ATOM	23083	O	VAL	M	152	116.513	24.536	79.123	1.00126.46
ATOM	23084	CB	VAL	M	152	113.694	25.022	79.046	1.00126.67
ATOM	23085	CG1	VAL	M	152	113.846	25.684	77.682	1.00127.55
ATOM	23086	CG2	VAL	M	152	112.227	24.948	79.444	1.00126.19
ATOM	23087	N	THR	M	153	116.169	22.878	77.640	1.00129.19
ATOM	23088	CA	THR	M	153	117.544	22.878	77.153	1.00131.12
ATOM	23089	C	THR	M	153	117.689	23.533	75.784	1.00131.75
ATOM	23090	O	THR	M	153	116.816	23.403	74.920	1.00130.75
ATOM	23091	CB	THR	M	153	118.116	21.442	77.064	1.00131.88
ATOM	23092	OG1	THR	M	153	119.455	21.493	76.555	1.00132.30
ATOM	23093	CG2	THR	M	153	117.265	20.579	76.145	1.00131.31
ATOM	23094	N	GLU	M	154	118.806	24.235	75.604	1.00132.50
ATOM	23095	CA	GLU	M	154	119.110	24.919	74.353	1.00132.92
ATOM	23096	C	GLU	M	154	117.979	25.873	73.981	1.00134.18
ATOM	23097	O	GLU	M	154	117.488	25.849	72.850	1.00134.82
ATOM	23098	CB	GLU	M	154	119.306	23.885	73.245	1.00131.13
ATOM	23099	CG	GLU	M	154	120.086	22.662	73.695	1.00128.29
ATOM	23100	CD	GLU	M	154	120.103	21.570	72.653	1.00126.88
ATOM	23101	OE1	GLU	M	154	119.725	21.848	71.498	1.00126.67
ATOM	23102	OE2	GLU	M	154	120.498	20.436	72.988	1.00126.03
ATOM	23103	N	LEU	M	155	117.574	26.710	74.936	1.00134.92
ATOM	23104	CA	LEU	M	155	116.491	27.673	74.728	1.00135.39
ATOM	23105	C	LEU	M	155	116.830	28.676	73.634	1.00135.82
ATOM	23106	O	LEU	M	155	117.263	29.793	73.913	1.00135.68
ATOM	23107	CB	LEU	M	155	116.182	28.419	76.031	1.00135.09
ATOM	23108	CG	LEU	M	155	115.024	29.422	75.998	1.00134.18
ATOM	23109	CD1	LEU	M	155	113.739	28.712	75.598	1.00133.58
ATOM	23110	CD2	LEU	M	155	114.870	30.073	77.365	1.00133.30
ATOM	23111	N	ASN	M	156	116.622	28.268	72.388	1.00136.82
ATOM	23112	CA	ASN	M	156	116.907	29.117	71.242	1.00137.68
ATOM	23113	C	ASN	M	156	115.635	29.717	70.666	1.00138.42
ATOM	23114	O	ASN	M	156	114.526	29.420	71.114	1.00138.68
ATOM	23115	CB	ASN	M	156	117.612	28.309	70.148	1.00137.11
ATOM	23116	CG	ASN	M	156	118.934	27.737	70.607	1.00137.24
ATOM	23117	OD1	ASN	M	156	119.872	28.475	70.909	1.00137.80
ATOM	23118	ND2	ASN	M	156	119.017	26.413	70.664	1.00136.79
ATOM	23119	N	ALA	M	157	115.819	30.571	69.666	1.00138.89
ATOM	23120	CA	ALA	M	157	114.721	31.221	68.968	1.00138.68
ATOM	23121	C	ALA	M	157	115.127	31.215	67.503	1.00138.74
ATOM	23122	O	ALA	M	157	114.783	32.118	66.740	1.00138.67
ATOM	23123	CB	ALA	M	157	114.547	32.643	69.462	1.00138.13
ATOM	23124	N	GLY	M	158	115.875	30.179	67.130	1.00138.99

ATOM	23125	CA	GLY	M	158	116.352	30.046	65.767	1.00138.90
ATOM	23126	C	GLY	M	158	117.411	31.091	65.483	1.00138.61
ATOM	23127	O	GLY	M	158	117.911	31.201	64.363	1.00138.80
ATOM	23128	N	THR	M	159	117.755	31.859	66.512	1.00137.71
ATOM	23129	CA	THR	M	159	118.750	32.912	66.382	1.00136.49
ATOM	23130	C	THR	M	159	119.497	33.148	67.690	1.00135.55
ATOM	23131	O	THR	M	159	120.614	32.667	67.875	1.00134.66
ATOM	23132	CB	THR	M	159	118.095	34.243	65.942	1.00136.89
ATOM	23133	OG1	THR	M	159	117.039	34.581	66.852	1.00136.69
ATOM	23134	CG2	THR	M	159	117.529	34.127	64.529	1.00135.45
ATOM	23135	N	ARG	M	160	118.862	33.886	68.596	1.00135.31
ATOM	23136	CA	ARG	M	160	119.450	34.229	69.890	1.00135.14
ATOM	23137	C	ARG	M	160	119.279	33.125	70.940	1.00134.78
ATOM	23138	O	ARG	M	160	118.160	32.834	71.376	1.00134.43
ATOM	23139	CB	ARG	M	160	118.818	35.531	70.411	1.00134.97
ATOM	23140	CG	ARG	M	160	119.646	36.321	71.429	1.00134.08
ATOM	23141	CD	ARG	M	160	120.723	37.158	70.745	1.00134.24
ATOM	23142	NE	ARG	M	160	121.361	38.103	71.659	1.00133.44
ATOM	23143	CZ	ARG	M	160	122.250	39.020	71.286	1.00133.06
ATOM	23144	NH1	ARG	M	160	122.609	39.120	70.014	1.00132.73
ATOM	23145	NH2	ARG	M	160	122.778	39.841	72.183	1.00132.57
ATOM	23146	N	VAL	M	161	120.392	32.515	71.341	1.00134.10
ATOM	23147	CA	VAL	M	161	120.366	31.466	72.355	1.00133.20
ATOM	23148	C	VAL	M	161	120.281	32.125	73.730	1.00132.58
ATOM	23149	O	VAL	M	161	120.928	33.144	73.987	1.00131.86
ATOM	23150	CB	VAL	M	161	121.634	30.583	72.299	1.00133.47
ATOM	23151	CG1	VAL	M	161	122.872	31.428	72.551	1.00133.99
ATOM	23152	CG2	VAL	M	161	121.536	29.465	73.329	1.00133.15
ATOM	23153	N	LEU	M	162	119.481	31.539	74.613	1.00131.70
ATOM	23154	CA	LEU	M	162	119.304	32.089	75.946	1.00130.03
ATOM	23155	C	LEU	M	162	119.728	31.109	77.027	1.00129.26
ATOM	23156	O	LEU	M	162	120.467	30.157	76.767	1.00128.42
ATOM	23157	CB	LEU	M	162	117.840	32.480	76.153	1.00129.49
ATOM	23158	CG	LEU	M	162	117.182	33.233	74.993	1.00129.02
ATOM	23159	CD1	LEU	M	162	115.773	33.629	75.388	1.00128.08
ATOM	23160	CD2	LEU	M	162	118.007	34.457	74.632	1.00127.56
ATOM	23161	N	GLU	M	163	119.247	31.362	78.241	1.00129.40
ATOM	23162	CA	GLU	M	163	119.545	30.536	79.407	1.00129.43
ATOM	23163	C	GLU	M	163	118.536	29.394	79.552	1.00129.32
ATOM	23164	O	GLU	M	163	117.338	29.561	79.306	1.00129.16
ATOM	23165	CB	GLU	M	163	119.541	31.416	80.673	1.00128.70
ATOM	23166	CG	GLU	M	163	119.666	30.683	82.015	1.00127.90
ATOM	23167	CD	GLU	M	163	121.017	30.014	82.220	1.00127.76
ATOM	23168	OE1	GLU	M	163	122.055	30.668	81.981	1.00125.84
ATOM	23169	OE2	GLU	M	163	121.041	28.834	82.635	1.00128.01
ATOM	23170	N	ASN	M	164	119.039	28.226	79.937	1.00129.20
ATOM	23171	CA	ASN	M	164	118.197	27.057	80.135	1.00128.64
ATOM	23172	C	ASN	M	164	117.635	27.153	81.552	1.00128.47
ATOM	23173	O	ASN	M	164	118.378	27.040	82.529	1.00127.97
ATOM	23174	CB	ASN	M	164	119.023	25.771	79.992	1.00128.45
ATOM	23175	CG	ASN	M	164	119.830	25.728	78.704	1.00127.38
ATOM	23176	OD1	ASN	M	164	119.288	25.872	77.609	1.00126.38
ATOM	23177	ND2	ASN	M	164	121.136	25.521	78.833	1.00126.71
ATOM	23178	N	ALA	M	165	116.329	27.377	81.661	1.00128.33
ATOM	23179	CA	ALA	M	165	115.690	27.492	82.967	1.00127.77
ATOM	23180	C	ALA	M	165	114.903	26.234	83.326	1.00127.38
ATOM	23181	O	ALA	M	165	114.607	25.405	82.466	1.00126.91
ATOM	23182	CB	ALA	M	165	114.772	28.711	82.991	1.00127.70
ATOM	23183	N	LEU	M	166	114.573	26.101	84.607	1.00127.67
ATOM	23184	CA	LEU	M	166	113.813	24.957	85.104	1.00128.09
ATOM	23185	C	LEU	M	166	112.341	25.339	85.285	1.00128.74
ATOM	23186	O	LEU	M	166	111.889	25.551	86.410	1.00129.38

ATOM	23187	CB	LEU M 166	114.393	24.486	86.446	1.00126.50
ATOM	23188	CG	LEU M 166	113.661	23.339	87.147	1.00125.08
ATOM	23189	CD1	LEU M 166	113.674	22.127	86.244	1.00125.45
ATOM	23190	CD2	LEU M 166	114.314	23.018	88.479	1.00123.34
ATOM	23191	N	VAL M 167	111.598	25.429	84.182	1.00129.34
ATOM	23192	CA	VAL M 167	110.183	25.791	84.250	1.00129.67
ATOM	23193	C	VAL M 167	109.481	24.801	85.177	1.00130.23
ATOM	23194	O	VAL M 167	109.269	23.639	84.826	1.00129.60
ATOM	23195	CB	VAL M 167	109.509	25.760	82.856	1.00129.72
ATOM	23196	CG1	VAL M 167	108.190	26.513	82.909	1.00129.32
ATOM	23197	CG2	VAL M 167	110.427	26.378	81.809	1.00128.68
ATOM	23198	N	PRO M 168	109.112	25.261	86.381	1.00131.14
ATOM	23199	CA	PRO M 168	108.439	24.456	87.403	1.00131.51
ATOM	23200	C	PRO M 168	107.030	23.964	87.069	1.00131.76
ATOM	23201	O	PRO M 168	106.376	24.470	86.153	1.00131.31
ATOM	23202	CB	PRO M 168	108.458	25.378	88.620	1.00131.53
ATOM	23203	CG	PRO M 168	108.299	26.728	88.003	1.00131.58
ATOM	23204	CD	PRO M 168	109.249	26.661	86.828	1.00131.28
ATOM	23205	N	PRO M 169	106.556	22.952	87.815	1.00131.99
ATOM	23206	CA	PRO M 169	105.233	22.346	87.656	1.00132.79
ATOM	23207	C	PRO M 169	104.112	23.374	87.753	1.00134.14
ATOM	23208	O	PRO M 169	103.971	24.057	88.774	1.00133.84
ATOM	23209	CB	PRO M 169	105.186	21.337	88.798	1.00132.03
ATOM	23210	CG	PRO M 169	106.598	20.887	88.885	1.00131.13
ATOM	23211	CD	PRO M 169	107.352	22.193	88.796	1.00131.43
ATOM	23212	N	MET M 170	103.319	23.472	86.688	1.00135.61
ATOM	23213	CA	MET M 170	102.200	24.408	86.625	1.00136.76
ATOM	23214	C	MET M 170	102.682	25.856	86.670	1.00136.78
ATOM	23215	O	MET M 170	102.053	26.750	86.100	1.00136.65
ATOM	23216	CB	MET M 170	101.213	24.121	87.765	1.00137.65
ATOM	23217	CG	MET M 170	100.263	22.966	87.463	1.00138.47
ATOM	23218	SD	MET M 170	99.455	22.210	88.890	1.00141.41
ATOM	23219	CE	MET M 170	100.204	20.562	88.865	1.00140.89
ATOM	23220	N	GLY M 171	103.810	26.076	87.333	1.00136.73
ATOM	23221	CA	GLY M 171	104.358	27.412	87.425	1.00137.05
ATOM	23222	C	GLY M 171	104.968	27.835	86.105	1.00137.52
ATOM	23223	O	GLY M 171	104.471	27.478	85.035	1.00136.61
ATOM	23224	N	GLU M 172	106.055	28.596	86.186	1.00138.50
ATOM	23225	CA	GLU M 172	106.746	29.079	84.999	1.00139.41
ATOM	23226	C	GLU M 172	108.054	29.776	85.364	1.00140.03
ATOM	23227	O	GLU M 172	108.375	29.947	86.542	1.00139.82
ATOM	23228	CB	GLU M 172	105.840	30.042	84.224	1.00138.97
ATOM	23229	CG	GLU M 172	105.457	31.310	84.971	1.00138.90
ATOM	23230	CD	GLU M 172	104.507	32.193	84.177	1.00139.12
ATOM	23231	OE1	GLU M 172	104.849	32.570	83.036	1.00138.94
ATOM	23232	OE2	GLU M 172	103.417	32.515	84.694	1.00139.06
ATOM	23233	N	SER M 173	108.807	30.169	84.343	1.00141.27
ATOM	23234	CA	SER M 173	110.081	30.859	84.524	1.00143.03
ATOM	23235	C	SER M 173	110.471	31.514	83.201	1.00143.58
ATOM	23236	O	SER M 173	109.851	31.248	82.170	1.00143.89
ATOM	23237	CB	SER M 173	111.166	29.873	84.963	1.00143.61
ATOM	23238	OG	SER M 173	110.849	29.297	86.218	1.00145.69
ATOM	23239	N	THR M 174	111.492	32.365	83.221	1.00 20.00
ATOM	23240	CG2	THR M 174	109.635	34.246	81.896	1.00 20.00
ATOM	23241	OG1	THR M 174	111.522	35.219	82.966	1.00 20.00
ATOM	23242	CB	THR M 174	111.157	34.391	81.875	1.00 20.00
ATOM	23243	CA	THR M 174	111.908	33.041	81.998	1.00 20.00
ATOM	23244	C	THR M 174	113.397	33.312	81.914	1.00 20.00
ATOM	23245	O	THR M 174	114.150	33.070	82.858	1.00 20.00
ATOM	23246	N	VAL M 175	113.806	33.826	80.760	1.00144.98
ATOM	23247	CA	VAL M 175	115.198	34.151	80.497	1.00146.29
ATOM	23248	C	VAL M 175	115.290	35.502	79.791	1.00147.18

ATOM	23249	O	VAL	M	175	114.438	35.842	78.965	1.00146.78
ATOM	23250	CB	VAL	M	175	115.860	33.075	79.607	1.00146.09
ATOM	23251	CG1	VAL	M	175	117.304	33.456	79.311	1.00145.72
ATOM	23252	CG2	VAL	M	175	115.790	31.722	80.295	1.00145.49
ATOM	23253	N	LYS	M	176	116.326	36.268	80.126	1.00147.98
ATOM	23254	CA	LYS	M	176	116.540	37.580	79.527	1.00148.33
ATOM	23255	C	LYS	M	176	116.602	37.448	78.011	1.00148.29
ATOM	23256	O	LYS	M	176	117.601	36.986	77.455	1.00148.14
ATOM	23257	CB	LYS	M	176	117.840	38.201	80.052	1.00148.83
ATOM	23258	CG	LYS	M	176	118.153	39.584	79.482	1.00148.90
ATOM	23259	CD	LYS	M	176	117.056	40.603	79.788	1.00149.52
ATOM	23260	CE	LYS	M	176	116.959	40.927	81.275	1.00149.39
ATOM	23261	NZ	LYS	M	176	116.575	39.756	82.113	1.00148.86
ATOM	23262	N	LEU	M	177	115.519	37.849	77.353	1.00148.34
ATOM	23263	CA	LEU	M	177	115.417	37.788	75.899	1.00148.71
ATOM	23264	C	LEU	M	177	116.065	39.017	75.262	1.00149.30
ATOM	23265	O	LEU	M	177	115.467	40.095	75.229	1.00150.11
ATOM	23266	CB	LEU	M	177	113.944	37.699	75.497	1.00147.32
ATOM	23267	CG	LEU	M	177	113.560	37.741	74.019	1.00145.94
ATOM	23268	CD1	LEU	M	177	114.418	36.787	73.212	1.00144.56
ATOM	23269	CD2	LEU	M	177	112.092	37.377	73.898	1.00146.21
ATOM	23270	N	PRO	M	178	117.298	38.865	74.741	1.00149.23
ATOM	23271	CA	PRO	M	178	118.058	39.943	74.100	1.00148.80
ATOM	23272	C	PRO	M	178	117.288	40.739	73.048	1.00148.75
ATOM	23273	O	PRO	M	178	117.825	41.686	72.473	1.00148.76
ATOM	23274	CB	PRO	M	178	119.253	39.206	73.500	1.00148.68
ATOM	23275	CG	PRO	M	178	119.474	38.096	74.473	1.00148.52
ATOM	23276	CD	PRO	M	178	118.066	37.607	74.708	1.00148.88
ATOM	23277	N	SER	M	179	116.034	40.359	72.809	1.00148.72
ATOM	23278	CA	SER	M	179	115.196	41.028	71.816	1.00148.48
ATOM	23279	C	SER	M	179	115.856	40.862	70.451	1.00148.66
ATOM	23280	O	SER	M	179	115.546	41.582	69.497	1.00148.62
ATOM	23281	CB	SER	M	179	115.042	42.517	72.151	1.00147.93
ATOM	23282	OG	SER	M	179	114.412	42.701	73.408	1.00146.45
ATOM	23283	N	ASP	M	180	116.772	39.900	70.382	1.00148.49
ATOM	23284	CA	ASP	M	180	117.518	39.593	69.164	1.00148.06
ATOM	23285	C	ASP	M	180	117.158	38.180	68.695	1.00147.15
ATOM	23286	O	ASP	M	180	117.702	37.681	67.703	1.00146.67
ATOM	23287	CB	ASP	M	180	119.028	39.673	69.441	1.00148.32
ATOM	23288	CG	ASP	M	180	119.442	40.988	70.093	1.00148.09
ATOM	23289	OD1	ASP	M	180	118.600	41.906	70.189	1.00148.03
ATOM	23290	OD2	ASP	M	180	120.614	41.104	70.508	1.00147.47
ATOM	23291	N	ALA	M	181	116.238	37.545	69.420	1.00145.62
ATOM	23292	CA	ALA	M	181	115.798	36.188	69.111	1.00143.62
ATOM	23293	C	ALA	M	181	114.654	36.171	68.104	1.00142.06
ATOM	23294	O	ALA	M	181	114.160	35.105	67.730	1.00141.44
ATOM	23295	CB	ALA	M	181	115.375	35.485	70.391	1.00143.60
ATOM	23296	N	GLY	M	182	114.241	37.358	67.672	1.00140.67
ATOM	23297	CA	GLY	M	182	113.161	37.465	66.709	1.00138.34
ATOM	23298	C	GLY	M	182	111.825	37.037	67.278	1.00136.81
ATOM	23299	O	GLY	M	182	111.180	37.795	68.003	1.00136.20
ATOM	23300	N	SER	M	183	111.413	35.817	66.946	1.00135.37
ATOM	23301	CA	SER	M	183	110.147	35.276	67.420	1.00133.81
ATOM	23302	C	SER	M	183	110.062	33.767	67.181	1.00133.80
ATOM	23303	O	SER	M	183	109.106	33.118	67.610	1.00134.01
ATOM	23304	CB	SER	M	183	108.979	35.978	66.716	1.00133.03
ATOM	23305	OG	SER	M	183	108.934	37.362	67.029	1.00129.52
ATOM	23306	N	ASN	M	184	111.069	33.213	66.505	1.00133.28
ATOM	23307	CA	ASN	M	184	111.108	31.781	66.197	1.00132.75
ATOM	23308	C	ASN	M	184	111.104	30.881	67.430	1.00131.94
ATOM	23309	O	ASN	M	184	112.156	30.532	67.964	1.00130.97
ATOM	23310	CB	ASN	M	184	112.336	31.450	65.347	1.00133.73

ATOM	23311	CG	ASN	M	184	112.472	29.960	65.078	1.00135.49
ATOM	23312	OD1	ASN	M	184	111.574	29.338	64.510	1.00136.31
ATOM	23313	ND2	ASN	M	184	113.594	29.381	65.487	1.00135.98
ATOM	23314	N	ILE	M	185	109.912	30.493	67.864	1.00131.63
ATOM	23315	CA	ILE	M	185	109.767	29.635	69.031	1.00131.24
ATOM	23316	C	ILE	M	185	110.358	28.250	68.750	1.00131.22
ATOM	23317	O	ILE	M	185	109.776	27.456	68.006	1.00131.40
ATOM	23318	CB	ILE	M	185	108.273	29.471	69.420	1.00130.83
ATOM	23319	CG1	ILE	M	185	107.552	30.824	69.362	1.00129.26
ATOM	23320	CG2	ILE	M	185	108.165	28.884	70.819	1.00130.48
ATOM	23321	CD1	ILE	M	185	108.035	31.842	70.371	1.00127.49
ATOM	23322	N	THR	M	186	111.519	27.972	69.339	1.00130.56
ATOM	23323	CA	THR	M	186	112.190	26.681	69.174	1.00129.86
ATOM	23324	C	THR	M	186	112.859	26.295	70.492	1.00129.96
ATOM	23325	O	THR	M	186	113.536	27.117	71.110	1.00129.77
ATOM	23326	CB	THR	M	186	113.266	26.735	68.068	1.00128.87
ATOM	23327	OG1	THR	M	186	112.649	27.055	66.817	1.00128.24
ATOM	23328	CG2	THR	M	186	113.976	25.394	67.944	1.00127.59
ATOM	23329	N	TYR	M	187	112.665	25.050	70.922	1.00129.80
ATOM	23330	CA	TYR	M	187	113.251	24.588	72.178	1.00128.97
ATOM	23331	C	TYR	M	187	113.469	23.076	72.229	1.00127.76
ATOM	23332	O	TYR	M	187	113.123	22.350	71.295	1.00127.07
ATOM	23333	CB	TYR	M	187	112.363	25.019	73.358	1.00129.39
ATOM	23334	CG	TYR	M	187	111.017	24.318	73.423	1.00129.45
ATOM	23335	CD1	TYR	M	187	110.904	23.021	73.930	1.00129.14
ATOM	23336	CD2	TYR	M	187	109.861	24.945	72.957	1.00129.58
ATOM	23337	CE1	TYR	M	187	109.677	22.367	73.971	1.00129.08
ATOM	23338	CE2	TYR	M	187	108.627	24.299	72.993	1.00129.74
ATOM	23339	CZ	TYR	M	187	108.543	23.010	73.500	1.00129.66
ATOM	23340	OH	TYR	M	187	107.328	22.362	73.528	1.00129.55
ATOM	23341	N	ARG	M	188	114.046	22.620	73.337	1.00126.58
ATOM	23342	CA	ARG	M	188	114.321	21.207	73.565	1.00125.67
ATOM	23343	C	ARG	M	188	114.327	20.972	75.073	1.00125.02
ATOM	23344	O	ARG	M	188	114.657	21.883	75.834	1.00125.41
ATOM	23345	CB	ARG	M	188	115.677	20.835	72.962	1.00126.00
ATOM	23346	CG	ARG	M	188	115.725	20.955	71.445	1.00125.53
ATOM	23347	CD	ARG	M	188	117.136	20.799	70.915	1.00125.58
ATOM	23348	NE	ARG	M	188	117.723	19.499	71.234	1.00126.19
ATOM	23349	CZ	ARG	M	188	117.261	18.337	70.785	1.00125.93
ATOM	23350	NH1	ARG	M	188	116.196	18.304	69.994	1.00126.09
ATOM	23351	NH2	ARG	M	188	117.874	17.207	71.111	1.00124.61
ATOM	23352	N	THR	M	189	113.961	19.766	75.509	1.00123.85
ATOM	23353	CA	THR	M	189	113.927	19.461	76.941	1.00122.55
ATOM	23354	C	THR	M	189	114.529	18.107	77.316	1.00120.75
ATOM	23355	O	THR	M	189	114.526	17.161	76.531	1.00120.40
ATOM	23356	CB	THR	M	189	112.481	19.496	77.498	1.00123.48
ATOM	23357	OG1	THR	M	189	111.856	18.223	77.298	1.00124.21
ATOM	23358	CG2	THR	M	189	111.659	20.569	76.791	1.00124.47
ATOM	23359	N	ILE	M	190	115.034	18.028	78.539	1.00119.29
ATOM	23360	CA	ILE	M	190	115.640	16.809	79.051	1.00116.99
ATOM	23361	C	ILE	M	190	114.605	16.046	79.879	1.00116.70
ATOM	23362	O	ILE	M	190	113.717	16.650	80.486	1.00115.92
ATOM	23363	CB	ILE	M	190	116.863	17.148	79.917	1.00115.42
ATOM	23364	CG1	ILE	M	190	117.825	18.020	79.109	1.00112.51
ATOM	23365	CG2	ILE	M	190	117.552	15.875	80.377	1.00115.52
ATOM	23366	CD1	ILE	M	190	118.999	18.513	79.890	1.00110.30
ATOM	23367	N	ASN	M	191	114.731	14.721	79.903	1.00116.26
ATOM	23368	CA	ASN	M	191	113.794	13.865	80.627	1.00116.50
ATOM	23369	C	ASN	M	191	114.403	13.039	81.760	1.00116.87
ATOM	23370	O	ASN	M	191	115.545	13.263	82.162	1.00117.36
ATOM	23371	CB	ASN	M	191	113.104	12.928	79.637	1.00115.84
ATOM	23372	CG	ASN	M	191	114.080	12.296	78.664	1.00114.63

ATOM	23373	OD1	ASN	M	191	115.023	11.614	79.067	1.00111.68
ATOM	23374	ND2	ASN	M	191	113.861	12.524	77.373	1.00114.22
ATOM	23375	N	ASP	M	192	113.620	12.081	82.259	1.00117.21
ATOM	23376	CA	ASP	M	192	114.020	11.190	83.358	1.00117.19
ATOM	23377	C	ASP	M	192	115.350	10.492	83.098	1.00115.76
ATOM	23378	O	ASP	M	192	116.246	10.476	83.948	1.00114.90
ATOM	23379	CB	ASP	M	192	112.953	10.112	83.580	1.00118.13
ATOM	23380	CG	ASP	M	192	111.562	10.685	83.730	1.00119.25
ATOM	23381	OD1	ASP	M	192	111.434	11.926	83.814	1.00120.85
ATOM	23382	OD2	ASP	M	192	110.597	9.889	83.767	1.00119.26
ATOM	23383	N	TYR	M	193	115.447	9.899	81.915	1.00114.03
ATOM	23384	CA	TYR	M	193	116.628	9.169	81.486	1.00113.00
ATOM	23385	C	TYR	M	193	117.795	10.134	81.290	1.00114.32
ATOM	23386	O	TYR	M	193	118.884	9.944	81.842	1.00113.30
ATOM	23387	CB	TYR	M	193	116.301	8.446	80.178	1.00109.80
ATOM	23388	CG	TYR	M	193	115.001	7.666	80.239	1.00105.54
ATOM	23389	CD1	TYR	M	193	114.517	7.176	81.452	1.00103.39
ATOM	23390	CD2	TYR	M	193	114.250	7.428	79.090	1.00103.29
ATOM	23391	CE1	TYR	M	193	113.321	6.476	81.522	1.00101.94
ATOM	23392	CE2	TYR	M	193	113.047	6.727	79.150	1.00101.53
ATOM	23393	CZ	TYR	M	193	112.590	6.256	80.372	1.00101.81
ATOM	23394	OH	TYR	M	193	111.398	5.573	80.457	1.00101.58
ATOM	23395	N	GLY	M	194	117.542	11.177	80.505	1.00115.98
ATOM	23396	CA	GLY	M	194	118.554	12.176	80.224	1.00116.43
ATOM	23397	C	GLY	M	194	118.648	12.393	78.731	1.00116.91
ATOM	23398	O	GLY	M	194	119.741	12.530	78.190	1.00116.18
ATOM	23399	N	ALA	M	195	117.496	12.425	78.067	1.00118.85
ATOM	23400	CA	ALA	M	195	117.444	12.611	76.621	1.00121.46
ATOM	23401	C	ALA	M	195	116.732	13.894	76.202	1.00122.88
ATOM	23402	O	ALA	M	195	115.664	14.232	76.718	1.00122.56
ATOM	23403	CB	ALA	M	195	116.769	11.404	75.964	1.00121.62
ATOM	23404	N	LEU	M	196	117.338	14.602	75.254	1.00124.99
ATOM	23405	CA	LEU	M	196	116.779	15.845	74.743	1.00127.76
ATOM	23406	C	LEU	M	196	115.518	15.541	73.943	1.00129.65
ATOM	23407	O	LEU	M	196	115.481	14.576	73.182	1.00130.46
ATOM	23408	CB	LEU	M	196	117.785	16.547	73.822	1.00126.43
ATOM	23409	CG	LEU	M	196	119.184	16.920	74.314	1.00126.14
ATOM	23410	CD1	LEU	M	196	119.963	17.532	73.166	1.00124.77
ATOM	23411	CD2	LEU	M	196	119.095	17.897	75.473	1.00128.01
ATOM	23412	N	THR	M	197	114.486	16.358	74.115	1.00131.78
ATOM	23413	CA	THR	M	197	113.251	16.166	73.370	1.00133.85
ATOM	23414	C	THR	M	197	113.427	16.856	72.021	1.00135.14
ATOM	23415	O	THR	M	197	114.171	17.830	71.909	1.00134.90
ATOM	23416	CB	THR	M	197	112.033	16.772	74.107	1.00134.60
ATOM	23417	OG1	THR	M	197	112.213	18.186	74.267	1.00135.50
ATOM	23418	CG2	THR	M	197	111.863	16.118	75.472	1.00133.93
ATOM	23419	N	PRO	M	198	112.752	16.357	70.976	1.00137.08
ATOM	23420	CA	PRO	M	198	112.878	16.971	69.650	1.00139.09
ATOM	23421	C	PRO	M	198	112.496	18.454	69.635	1.00140.79
ATOM	23422	O	PRO	M	198	111.811	18.936	70.544	1.00140.97
ATOM	23423	CB	PRO	M	198	111.953	16.111	68.788	1.00139.28
ATOM	23424	CG	PRO	M	198	110.899	15.661	69.768	1.00138.18
ATOM	23425	CD	PRO	M	198	111.728	15.297	70.972	1.00137.52
ATOM	23426	N	LYS	M	199	112.951	19.172	68.607	1.00142.03
ATOM	23427	CA	LYS	M	199	112.653	20.598	68.465	1.00143.13
ATOM	23428	C	LYS	M	199	111.173	20.827	68.174	1.00144.26
ATOM	23429	O	LYS	M	199	110.799	21.230	67.073	1.00143.83
ATOM	23430	CB	LYS	M	199	113.481	21.223	67.337	1.00141.96
ATOM	23431	CG	LYS	M	199	114.953	21.405	67.644	1.00140.90
ATOM	23432	CD	LYS	M	199	115.635	22.148	66.509	1.00140.54
ATOM	23433	CE	LYS	M	199	117.114	22.355	66.782	1.00141.19
ATOM	23434	NZ	LYS	M	199	117.780	23.090	65.670	1.00140.98

ATOM	23435	N	MET	M	200	110.335	20.570	69.170	1.00146.00
ATOM	23436	CA	MET	M	200	108.900	20.752	69.020	1.00147.77
ATOM	23437	C	MET	M	200	108.626	22.243	68.870	1.00148.75
ATOM	23438	O	MET	M	200	109.538	23.020	68.575	1.00148.82
ATOM	23439	CB	MET	M	200	108.181	20.198	70.251	1.00148.52
ATOM	23440	CG	MET	M	200	108.710	18.840	70.688	1.00149.94
ATOM	23441	SD	MET	M	200	107.777	18.086	72.028	1.00151.64
ATOM	23442	CE	MET	M	200	106.788	16.888	71.120	1.00150.29
ATOM	23443	N	THR	M	201	107.375	22.643	69.070	1.00149.87
ATOM	23444	CA	THR	M	201	107.010	24.053	68.958	1.00150.86
ATOM	23445	C	THR	M	201	106.491	24.571	70.310	1.00151.24
ATOM	23446	O	THR	M	201	106.037	23.791	71.154	1.00151.45
ATOM	23447	CB	THR	M	201	105.922	24.269	67.867	1.00150.74
ATOM	23448	OG1	THR	M	201	106.171	23.396	66.757	1.00149.78
ATOM	23449	CG2	THR	M	201	105.951	25.714	67.366	1.00149.72
ATOM	23450	N	GLY	M	202	106.571	25.885	70.511	1.00150.96
ATOM	23451	CA	GLY	M	202	106.109	26.476	71.754	1.00150.00
ATOM	23452	C	GLY	M	202	104.615	26.733	71.773	1.00149.91
ATOM	23453	O	GLY	M	202	104.127	27.644	71.100	1.00149.35
ATOM	23454	N	VAL	M	203	103.896	25.927	72.554	1.00150.33
ATOM	23455	CA	VAL	M	203	102.439	26.028	72.688	1.00150.10
ATOM	23456	C	VAL	M	203	102.007	27.365	73.292	1.00150.81
ATOM	23457	O	VAL	M	203	101.535	27.413	74.425	1.00150.19
ATOM	23458	CB	VAL	M	203	101.877	24.883	73.580	1.00148.78
ATOM	23459	CG1	VAL	M	203	100.355	24.935	73.610	1.00146.58
ATOM	23460	CG2	VAL	M	203	102.356	23.537	73.062	1.00148.06
ATOM	23461	N	MET	M	204	102.161	28.440	72.523	1.00151.45
ATOM	23462	CA	MET	M	204	101.795	29.786	72.961	1.00151.81
ATOM	23463	C	MET	M	204	100.508	29.783	73.798	1.00152.30
ATOM	23464	O	MET	M	204	99.670	28.887	73.671	1.00152.25
ATOM	23465	CB	MET	M	204	101.622	30.695	71.739	1.00151.41
ATOM	23466	CG	MET	M	204	101.958	32.160	71.981	1.00151.56
ATOM	23467	SD	MET	M	204	103.732	32.452	72.176	1.00153.03
ATOM	23468	CE	MET	M	204	104.222	32.821	70.485	1.00150.16
ATOM	23469	N	GLU	M	205	100.356	30.792	74.651	1.00152.52
ATOM	23470	CA	GLU	M	205	99.185	30.905	75.519	1.00152.51
ATOM	23471	C	GLU	M	205	97.884	31.140	74.756	1.00151.95
ATOM	23472	O	GLU	M	205	96.974	30.292	74.871	1.00151.30
ATOM	23473	CB	GLU	M	205	99.399	32.034	76.530	1.00153.29
ATOM	23474	CG	GLU	M	205	99.760	33.370	75.897	1.00154.47
ATOM	23475	CD	GLU	M	205	99.989	34.463	76.922	1.00154.77
ATOM	23476	OE1	GLU	M	205	99.827	34.194	78.133	1.00154.33
ATOM	23477	OE2	GLU	M	205	100.332	35.593	76.512	1.00155.07
ATOM	23478	OXT	GLU	M	205	97.788	32.171	74.058	1.00151.53
ATOM	23479	N	PHE	N	1	108.819	-31.249	60.756	1.00 67.03
ATOM	23480	CA	PHE	N	1	109.265	-30.345	61.855	1.00 68.00
ATOM	23481	C	PHE	N	1	108.617	-28.979	61.667	1.00 69.76
ATOM	23482	O	PHE	N	1	108.487	-28.486	60.540	1.00 69.56
ATOM	23483	CB	PHE	N	1	110.798	-30.232	61.840	1.00 66.27
ATOM	23484	CG	PHE	N	1	111.371	-29.314	62.898	1.00 62.08
ATOM	23485	CD1	PHE	N	1	111.462	-27.943	62.683	1.00 61.05
ATOM	23486	CD2	PHE	N	1	111.862	-29.828	64.091	1.00 59.03
ATOM	23487	CE1	PHE	N	1	112.038	-27.106	63.638	1.00 57.74
ATOM	23488	CE2	PHE	N	1	112.435	-28.995	65.044	1.00 55.17
ATOM	23489	CZ	PHE	N	1	112.524	-27.636	64.816	1.00 53.40
ATOM	23490	N	ALA	N	2	108.199	-28.377	62.777	1.00 72.14
ATOM	23491	CA	ALA	N	2	107.562	-27.067	62.733	1.00 73.60
ATOM	23492	C	ALA	N	2	107.680	-26.312	64.059	1.00 73.81
ATOM	23493	O	ALA	N	2	107.797	-26.918	65.128	1.00 71.44
ATOM	23494	CB	ALA	N	2	106.095	-27.218	62.333	1.00 74.66
ATOM	23495	N	CYS	N	3	107.653	-24.983	63.961	1.00 75.15
ATOM	23496	CA	CYS	N	3	107.760	-24.091	65.114	1.00 75.63

ATOM	23497	C	CYS	N	3	106.645	-23.061	65.099	1.00	77.64
ATOM	23498	O	CYS	N	3	106.067	-22.772	64.044	1.00	77.81
ATOM	23499	CB	CYS	N	3	109.075	-23.327	65.075	1.00	73.68
ATOM	23500	SG	CYS	N	3	110.554	-24.332	64.796	1.00	67.19
ATOM	23501	N	LYS	N	4	106.368	-22.488	66.267	1.00	78.54
ATOM	23502	CA	LYS	N	4	105.337	-21.466	66.389	1.00	82.10
ATOM	23503	C	LYS	N	4	105.747	-20.488	67.467	1.00	83.66
ATOM	23504	O	LYS	N	4	106.318	-20.883	68.481	1.00	83.31
ATOM	23505	CB	LYS	N	4	103.971	-22.098	66.723	1.00	83.56
ATOM	23506	CG	LYS	N	4	103.810	-22.713	68.125	1.00	85.65
ATOM	23507	CD	LYS	N	4	103.126	-21.742	69.103	1.00	86.12
ATOM	23508	CE	LYS	N	4	102.645	-22.430	70.389	1.00	83.48
ATOM	23509	NZ	LYS	N	4	103.747	-22.960	71.236	1.00	82.13
ATOM	23510	N	THR	N	5	105.470	-19.209	67.242	1.00	87.34
ATOM	23511	CA	THR	N	5	105.816	-18.183	68.218	1.00	92.64
ATOM	23512	C	THR	N	5	104.799	-18.181	69.374	1.00	95.07
ATOM	23513	O	THR	N	5	103.664	-18.645	69.216	1.00	96.44
ATOM	23514	CB	THR	N	5	105.861	-16.782	67.555	1.00	92.61
ATOM	23515	OG1	THR	N	5	106.561	-15.872	68.411	1.00	95.30
ATOM	23516	CG2	THR	N	5	104.456	-16.247	67.321	1.00	91.42
ATOM	23517	N	ALA	N	6	105.208	-17.666	70.532	1.00	96.00
ATOM	23518	CA	ALA	N	6	104.330	-17.611	71.697	1.00	96.77
ATOM	23519	C	ALA	N	6	103.225	-16.569	71.512	1.00	97.30
ATOM	23520	O	ALA	N	6	102.378	-16.393	72.385	1.00	97.97
ATOM	23521	CB	ALA	N	6	105.144	-17.294	72.951	1.00	96.17
ATOM	23522	N	ASN	N	7	103.236	-15.884	70.373	1.00	97.62
ATOM	23523	CA	ASN	N	7	102.238	-14.859	70.088	1.00	98.46
ATOM	23524	C	ASN	N	7	101.263	-15.374	69.036	1.00	98.32
ATOM	23525	O	ASN	N	7	100.454	-14.625	68.490	1.00	97.33
ATOM	23526	CB	ASN	N	7	102.927	-13.579	69.596	1.00	100.59
ATOM	23527	CG	ASN	N	7	102.055	-12.341	69.751	1.00	100.10
ATOM	23528	OD1	ASN	N	7	101.060	-12.173	69.048	1.00	101.42
ATOM	23529	ND2	ASN	N	7	102.429	-11.468	70.681	1.00	98.53
ATOM	23530	N	GLY	N	8	101.356	-16.665	68.747	1.00	98.78
ATOM	23531	CA	GLY	N	8	100.460	-17.259	67.777	1.00	100.63
ATOM	23532	C	GLY	N	8	101.043	-17.488	66.400	1.00	101.24
ATOM	23533	O	GLY	N	8	100.740	-18.497	65.762	1.00	101.14
ATOM	23534	N	THR	N	9	101.869	-16.557	65.933	1.00	101.81
ATOM	23535	CA	THR	N	9	102.479	-16.680	64.610	1.00	102.09
ATOM	23536	C	THR	N	9	103.354	-17.929	64.528	1.00	101.07
ATOM	23537	O	THR	N	9	104.166	-18.189	65.419	1.00	100.73
ATOM	23538	CB	THR	N	9	103.323	-15.440	64.281	1.00	103.20
ATOM	23539	OG1	THR	N	9	102.563	-14.260	64.584	1.00	104.90
ATOM	23540	CG2	THR	N	9	103.706	-15.433	62.800	1.00	102.18
ATOM	23541	N	ALA	N	10	103.191	-18.701	63.457	1.00	99.49
ATOM	23542	CA	ALA	N	10	103.957	-19.930	63.301	1.00	98.49
ATOM	23543	C	ALA	N	10	104.589	-20.130	61.929	1.00	98.64
ATOM	23544	O	ALA	N	10	104.204	-19.501	60.938	1.00	98.15
ATOM	23545	CB	ALA	N	10	103.080	-21.122	63.637	1.00	98.38
ATOM	23546	N	ILE	N	11	105.568	-21.027	61.895	1.00	98.57
ATOM	23547	CA	ILE	N	11	106.292	-21.356	60.678	1.00	98.70
ATOM	23548	C	ILE	N	11	106.039	-22.822	60.339	1.00	97.38
ATOM	23549	O	ILE	N	11	106.493	-23.720	61.053	1.00	97.52
ATOM	23550	CB	ILE	N	11	107.806	-21.144	60.863	1.00	100.28
ATOM	23551	CG1	ILE	N	11	108.094	-19.681	61.220	1.00	101.87
ATOM	23552	CG2	ILE	N	11	108.531	-21.532	59.600	1.00	100.74
ATOM	23553	CD1	ILE	N	11	109.569	-19.359	61.440	1.00	101.91
ATOM	23554	N	PRO	N	12	105.320	-23.080	59.233	1.00	95.70
ATOM	23555	CA	PRO	N	12	104.983	-24.430	58.769	1.00	94.22
ATOM	23556	C	PRO	N	12	106.187	-25.306	58.433	1.00	92.88
ATOM	23557	O	PRO	N	12	107.334	-24.886	58.563	1.00	93.02
ATOM	23558	CB	PRO	N	12	104.113	-24.160	57.547	1.00	94.01

ATOM	23559	CG	PRO	N	12	104.717	-22.914	56.993	1.00	94.05
ATOM	23560	CD	PRO	N	12	104.906	-22.074	58.237	1.00	95.43
ATOM	23561	N	ILE	N	13	105.911	-26.535	58.008	1.00	91.40
ATOM	23562	CA	ILE	N	13	106.966	-27.464	57.631	1.00	88.89
ATOM	23563	C	ILE	N	13	107.668	-26.855	56.422	1.00	88.45
ATOM	23564	O	ILE	N	13	107.111	-25.992	55.746	1.00	88.70
ATOM	23565	CB	ILE	N	13	106.384	-28.845	57.245	1.00	87.33
ATOM	23566	CG1	ILE	N	13	105.512	-29.377	58.384	1.00	85.67
ATOM	23567	CG2	ILE	N	13	107.509	-29.823	56.943	1.00	86.69
ATOM	23568	CD1	ILE	N	13	105.031	-30.789	58.185	1.00	83.20
ATOM	23569	N	GLY	N	14	108.887	-27.299	56.146	1.00	88.31
ATOM	23570	CA	GLY	N	14	109.621	-26.751	55.019	1.00	87.12
ATOM	23571	C	GLY	N	14	110.271	-25.433	55.397	1.00	85.80
ATOM	23572	O	GLY	N	14	110.794	-24.712	54.546	1.00	84.10
ATOM	23573	N	GLY	N	15	110.242	-25.127	56.690	1.00	85.13
ATOM	23574	CA	GLY	N	15	110.812	-23.887	57.173	1.00	85.02
ATOM	23575	C	GLY	N	15	109.781	-22.785	57.039	1.00	85.11
ATOM	23576	O	GLY	N	15	108.585	-23.054	56.943	1.00	85.42
ATOM	23577	N	GLY	N	16	110.237	-21.540	57.033	1.00	84.83
ATOM	23578	CA	GLY	N	16	109.312	-20.438	56.896	1.00	85.79
ATOM	23579	C	GLY	N	16	109.904	-19.096	57.260	1.00	86.66
ATOM	23580	O	GLY	N	16	111.035	-18.781	56.884	1.00	87.33
ATOM	23581	N	SER	N	17	109.135	-18.306	57.999	1.00	86.21
ATOM	23582	CA	SER	N	17	109.570	-16.981	58.398	1.00	87.09
ATOM	23583	C	SER	N	17	108.514	-16.355	59.291	1.00	88.33
ATOM	23584	O	SER	N	17	107.325	-16.381	58.963	1.00	88.68
ATOM	23585	CB	SER	N	17	109.768	-16.115	57.158	1.00	86.99
ATOM	23586	OG	SER	N	17	108.577	-16.070	56.391	1.00	84.85
ATOM	23587	N	ALA	N	18	108.952	-15.787	60.413	1.00	88.83
ATOM	23588	CA	ALA	N	18	108.036	-15.166	61.364	1.00	87.89
ATOM	23589	C	ALA	N	18	108.651	-13.996	62.127	1.00	86.37
ATOM	23590	O	ALA	N	18	109.862	-13.916	62.309	1.00	84.30
ATOM	23591	CB	ALA	N	18	107.526	-16.215	62.350	1.00	87.40
ATOM	23592	N	ASN	N	19	107.789	-13.093	62.574	1.00	86.06
ATOM	23593	CA	ASN	N	19	108.209	-11.921	63.320	1.00	86.38
ATOM	23594	C	ASN	N	19	108.020	-12.147	64.809	1.00	86.85
ATOM	23595	O	ASN	N	19	106.902	-12.376	65.279	1.00	87.35
ATOM	23596	CB	ASN	N	19	107.382	-10.711	62.901	1.00	87.72
ATOM	23597	CG	ASN	N	19	107.852	-10.093	61.607	1.00	88.18
ATOM	23598	OD1	ASN	N	19	108.177	-10.786	60.640	1.00	86.82
ATOM	23599	ND2	ASN	N	19	107.871	-8.767	61.577	1.00	90.33
ATOM	23600	N	VAL	N	20	109.112	-12.072	65.557	1.00	86.08
ATOM	23601	CA	VAL	N	20	109.044	-12.257	66.994	1.00	86.81
ATOM	23602	C	VAL	N	20	109.120	-10.886	67.664	1.00	88.21
ATOM	23603	O	VAL	N	20	110.205	-10.428	68.025	1.00	88.99
ATOM	23604	CB	VAL	N	20	110.207	-13.130	67.484	1.00	85.71
ATOM	23605	CG1	VAL	N	20	109.927	-13.642	68.887	1.00	85.02
ATOM	23606	CG2	VAL	N	20	110.419	-14.280	66.522	1.00	87.76
ATOM	23607	N	TYR	N	21	107.971	-10.228	67.821	1.00	88.46
ATOM	23608	CA	TYR	N	21	107.929	-8.907	68.447	1.00	87.55
ATOM	23609	C	TYR	N	21	108.130	-9.017	69.957	1.00	89.24
ATOM	23610	O	TYR	N	21	107.201	-8.799	70.727	1.00	91.08
ATOM	23611	CB	TYR	N	21	106.587	-8.227	68.175	1.00	83.34
ATOM	23612	CG	TYR	N	21	106.172	-8.231	66.731	1.00	80.02
ATOM	23613	CD1	TYR	N	21	105.535	-9.332	66.169	1.00	78.14
ATOM	23614	CD2	TYR	N	21	106.437	-7.139	65.917	1.00	80.78
ATOM	23615	CE1	TYR	N	21	105.174	-9.343	64.823	1.00	79.57
ATOM	23616	CE2	TYR	N	21	106.084	-7.138	64.569	1.00	80.90
ATOM	23617	CZ	TYR	N	21	105.457	-8.240	64.025	1.00	80.48
ATOM	23618	OH	TYR	N	21	105.149	-8.245	62.677	1.00	80.84
ATOM	23619	N	VAL	N	22	109.339	-9.355	70.385	1.00	90.40
ATOM	23620	CA	VAL	N	22	109.612	-9.492	71.810	1.00	92.70

ATOM	23621	C	VAL	N	22	109.709	-8.141	72.509	1.00	94.41
ATOM	23622	O	VAL	N	22	109.916	-7.108	71.866	1.00	95.94
ATOM	23623	CB	VAL	N	22	110.923	-10.258	72.058	1.00	93.49
ATOM	23624	CG1	VAL	N	22	110.773	-11.698	71.608	1.00	93.63
ATOM	23625	CG2	VAL	N	22	112.069	-9.581	71.319	1.00	92.89
ATOM	23626	N	ASN	N	23	109.551	-8.156	73.831	1.00	94.91
ATOM	23627	CA	ASN	N	23	109.633	-6.939	74.629	1.00	94.59
ATOM	23628	C	ASN	N	23	111.091	-6.721	74.995	1.00	95.87
ATOM	23629	O	ASN	N	23	111.907	-7.637	74.878	1.00	98.16
ATOM	23630	CB	ASN	N	23	108.797	-7.063	75.908	1.00	93.31
ATOM	23631	CG	ASN	N	23	107.323	-7.312	75.629	1.00	92.56
ATOM	23632	OD1	ASN	N	23	106.726	-6.688	74.751	1.00	92.97
ATOM	23633	ND2	ASN	N	23	106.725	-8.219	76.389	1.00	92.98
ATOM	23634	N	LEU	N	24	111.415	-5.515	75.446	1.00	95.83
ATOM	23635	CA	LEU	N	24	112.785	-5.191	75.819	1.00	94.67
ATOM	23636	C	LEU	N	24	112.845	-4.341	77.088	1.00	95.63
ATOM	23637	O	LEU	N	24	112.118	-3.352	77.220	1.00	93.60
ATOM	23638	CB	LEU	N	24	113.465	-4.451	74.665	1.00	93.44
ATOM	23639	CG	LEU	N	24	113.397	-5.144	73.304	1.00	90.88
ATOM	23640	CD1	LEU	N	24	113.922	-4.225	72.215	1.00	88.11
ATOM	23641	CD2	LEU	N	24	114.195	-6.430	73.373	1.00	90.30
ATOM	23642	N	ALA	N	25	113.710	-4.744	78.018	1.00	97.08
ATOM	23643	CA	ALA	N	25	113.896	-4.024	79.272	1.00	98.25
ATOM	23644	C	ALA	N	25	114.193	-2.582	78.893	1.00	100.05
ATOM	23645	O	ALA	N	25	115.252	-2.287	78.346	1.00	102.47
ATOM	23646	CB	ALA	N	25	115.066	-4.617	80.045	1.00	95.48
ATOM	23647	N	PRO	N	26	113.253	-1.663	79.164	1.00	100.94
ATOM	23648	CA	PRO	N	26	113.418	-0.241	78.840	1.00	100.31
ATOM	23649	C	PRO	N	26	114.574	0.526	79.492	1.00	99.40
ATOM	23650	O	PRO	N	26	114.851	1.654	79.091	1.00	99.96
ATOM	23651	CB	PRO	N	26	112.059	0.353	79.211	1.00	101.31
ATOM	23652	CG	PRO	N	26	111.119	-0.792	78.959	1.00	100.83
ATOM	23653	CD	PRO	N	26	111.870	-1.938	79.589	1.00	101.04
ATOM	23654	N	VAL	N	27	115.247	-0.052	80.485	1.00	98.04
ATOM	23655	CA	VAL	N	27	116.351	0.670	81.124	1.00	97.79
ATOM	23656	C	VAL	N	27	117.566	-0.176	81.537	1.00	98.50
ATOM	23657	O	VAL	N	27	117.537	-0.889	82.549	1.00	97.96
ATOM	23658	CB	VAL	N	27	115.856	1.461	82.364	1.00	97.20
ATOM	23659	CG1	VAL	N	27	117.020	2.191	83.022	1.00	94.65
ATOM	23660	CG2	VAL	N	27	114.779	2.455	81.950	1.00	96.05
ATOM	23661	N	VAL	N	28	118.641	-0.063	80.753	1.00	98.13
ATOM	23662	CA	VAL	N	28	119.882	-0.796	81.005	1.00	96.14
ATOM	23663	C	VAL	N	28	121.045	0.180	81.165	1.00	95.87
ATOM	23664	O	VAL	N	28	120.919	1.358	80.842	1.00	94.18
ATOM	23665	CB	VAL	N	28	120.230	-1.735	79.827	1.00	96.26
ATOM	23666	CG1	VAL	N	28	121.071	-2.904	80.329	1.00	94.52
ATOM	23667	CG2	VAL	N	28	118.960	-2.205	79.124	1.00	93.72
ATOM	23668	N	ASN	N	29	122.177	-0.316	81.657	1.00	96.53
ATOM	23669	CA	ASN	N	29	123.364	0.519	81.837	1.00	97.67
ATOM	23670	C	ASN	N	29	124.656	-0.245	81.560	1.00	97.18
ATOM	23671	O	ASN	N	29	124.622	-1.402	81.146	1.00	98.21
ATOM	23672	CB	ASN	N	29	123.395	1.114	83.251	1.00	100.32
ATOM	23673	CG	ASN	N	29	122.570	2.396	83.370	1.00	101.90
ATOM	23674	OD1	ASN	N	29	122.847	3.394	82.695	1.00	102.70
ATOM	23675	ND2	ASN	N	29	121.558	2.374	84.235	1.00	100.54
ATOM	23676	N	VAL	N	30	125.792	0.408	81.794	1.00	97.37
ATOM	23677	CA	VAL	N	30	127.115	-0.182	81.552	1.00	97.25
ATOM	23678	C	VAL	N	30	127.418	-1.484	82.297	1.00	96.84
ATOM	23679	O	VAL	N	30	127.512	-1.513	83.529	1.00	97.02
ATOM	23680	CB	VAL	N	30	128.243	0.832	81.874	1.00	97.09
ATOM	23681	CG1	VAL	N	30	129.604	0.159	81.776	1.00	95.79
ATOM	23682	CG2	VAL	N	30	128.171	2.000	80.911	1.00	97.18

ATOM	23683	N	GLY	N	31	127.599	-2.555	81.528	1.00	95.82
ATOM	23684	CA	GLY	N	31	127.894	-3.850	82.110	1.00	93.79
ATOM	23685	C	GLY	N	31	126.630	-4.661	82.278	1.00	92.46
ATOM	23686	O	GLY	N	31	126.578	-5.833	81.910	1.00	91.03
ATOM	23687	N	GLN	N	32	125.607	-4.021	82.835	1.00	92.87
ATOM	23688	CA	GLN	N	32	124.312	-4.654	83.072	1.00	93.71
ATOM	23689	C	GLN	N	32	123.769	-5.268	81.773	1.00	92.10
ATOM	23690	O	GLN	N	32	123.646	-4.577	80.752	1.00	91.25
ATOM	23691	CB	GLN	N	32	123.323	-3.613	83.622	1.00	95.91
ATOM	23692	CG	GLN	N	32	122.138	-4.208	84.371	1.00	99.91
ATOM	23693	CD	GLN	N	32	121.124	-3.160	84.792	1.00	103.37
ATOM	23694	OE1	GLN	N	32	120.500	-2.511	83.949	1.00	106.41
ATOM	23695	NE2	GLN	N	32	120.955	-2.987	86.100	1.00	104.81
ATOM	23696	N	ASN	N	33	123.435	-6.559	81.822	1.00	88.52
ATOM	23697	CA	ASN	N	33	122.932	-7.261	80.649	1.00	85.28
ATOM	23698	C	ASN	N	33	121.526	-6.920	80.205	1.00	83.43
ATOM	23699	O	ASN	N	33	120.676	-6.554	81.009	1.00	82.48
ATOM	23700	CB	ASN	N	33	123.037	-8.767	80.846	1.00	84.85
ATOM	23701	CG	ASN	N	33	124.384	-9.306	80.424	1.00	86.28
ATOM	23702	OD1	ASN	N	33	125.387	-9.128	81.117	1.00	87.25
ATOM	23703	ND2	ASN	N	33	124.420	-9.954	79.264	1.00	86.49
ATOM	23704	N	LEU	N	34	121.301	-7.063	78.903	1.00	82.36
ATOM	23705	CA	LEU	N	34	120.018	-6.779	78.272	1.00	81.46
ATOM	23706	C	LEU	N	34	119.430	-8.045	77.662	1.00	81.90
ATOM	23707	O	LEU	N	34	118.847	-8.012	76.579	1.00	82.30
ATOM	23708	CB	LEU	N	34	120.216	-5.720	77.186	1.00	81.68
ATOM	23709	CG	LEU	N	34	119.109	-5.435	76.169	1.00	81.31
ATOM	23710	CD1	LEU	N	34	117.772	-5.285	76.867	1.00	84.19
ATOM	23711	CD2	LEU	N	34	119.463	-4.181	75.399	1.00	81.06
ATOM	23712	N	VAL	N	35	119.583	-9.159	78.376	1.00	82.24
ATOM	23713	CA	VAL	N	35	119.099	-10.471	77.938	1.00	81.32
ATOM	23714	C	VAL	N	35	117.829	-10.439	77.088	1.00	79.64
ATOM	23715	O	VAL	N	35	116.882	-9.720	77.395	1.00	79.57
ATOM	23716	CB	VAL	N	35	118.849	-11.404	79.149	1.00	82.74
ATOM	23717	CG1	VAL	N	35	118.565	-12.827	78.662	1.00	84.29
ATOM	23718	CG2	VAL	N	35	120.055	-11.387	80.086	1.00	82.17
ATOM	23719	N	VAL	N	36	117.827	-11.230	76.017	1.00	78.94
ATOM	23720	CA	VAL	N	36	116.691	-11.329	75.101	1.00	77.65
ATOM	23721	C	VAL	N	36	116.410	-12.802	74.801	1.00	77.13
ATOM	23722	O	VAL	N	36	116.694	-13.282	73.705	1.00	77.07
ATOM	23723	CB	VAL	N	36	116.988	-10.607	73.775	1.00	76.75
ATOM	23724	CG1	VAL	N	36	115.798	-10.738	72.824	1.00	76.85
ATOM	23725	CG2	VAL	N	36	117.303	-9.145	74.049	1.00	76.92
ATOM	23726	N	ASP	N	37	115.850	-13.507	75.783	1.00	75.86
ATOM	23727	CA	ASP	N	37	115.551	-14.933	75.650	1.00	74.45
ATOM	23728	C	ASP	N	37	114.330	-15.232	74.804	1.00	72.82
ATOM	23729	O	ASP	N	37	113.274	-14.642	74.995	1.00	71.23
ATOM	23730	CB	ASP	N	37	115.353	-15.567	77.025	1.00	73.39
ATOM	23731	CG	ASP	N	37	115.068	-17.055	76.943	1.00	71.83
ATOM	23732	OD1	ASP	N	37	115.205	-17.636	75.845	1.00	69.46
ATOM	23733	OD2	ASP	N	37	114.715	-17.644	77.981	1.00	73.72
ATOM	23734	N	LEU	N	38	114.474	-16.174	73.880	1.00	73.27
ATOM	23735	CA	LEU	N	38	113.360	-16.537	73.022	1.00	73.86
ATOM	23736	C	LEU	N	38	112.862	-17.968	73.256	1.00	74.08
ATOM	23737	O	LEU	N	38	111.889	-18.409	72.638	1.00	73.49
ATOM	23738	CB	LEU	N	38	113.734	-16.295	71.556	1.00	71.79
ATOM	23739	CG	LEU	N	38	114.187	-14.848	71.338	1.00	67.98
ATOM	23740	CD1	LEU	N	38	115.680	-14.810	71.539	1.00	70.92
ATOM	23741	CD2	LEU	N	38	113.833	-14.343	69.951	1.00	66.73
ATOM	23742	N	SER	N	39	113.526	-18.692	74.154	1.00	73.97
ATOM	23743	CA	SER	N	39	113.083	-20.036	74.486	1.00	75.17
ATOM	23744	C	SER	N	39	111.910	-19.739	75.409	1.00	75.46

ATOM	23745	O	SER N	39	111.795	-20.285	76.510	1.00	75.15
ATOM	23746	CB	SER N	39	114.166	-20.819	75.238	1.00	76.77
ATOM	23747	OG	SER N	39	114.284	-20.381	76.579	1.00	77.38
ATOM	23748	N	THR N	40	111.060	-18.834	74.935	1.00	75.90
ATOM	23749	CA	THR N	40	109.876	-18.373	75.643	1.00	77.31
ATOM	23750	C	THR N	40	109.116	-17.492	74.656	1.00	77.62
ATOM	23751	O	THR N	40	108.139	-16.831	75.004	1.00	78.62
ATOM	23752	CB	THR N	40	110.252	-17.527	76.884	1.00	76.34
ATOM	23753	OG1	THR N	40	111.030	-18.318	77.793	1.00	75.58
ATOM	23754	CG2	THR N	40	109.002	-17.039	77.593	1.00	75.53
ATOM	23755	N	GLN N	41	109.584	-17.485	73.417	1.00	76.91
ATOM	23756	CA	GLN N	41	108.953	-16.690	72.378	1.00	78.00
ATOM	23757	C	GLN N	41	108.832	-17.505	71.109	1.00	77.93
ATOM	23758	O	GLN N	41	108.177	-17.089	70.154	1.00	77.05
ATOM	23759	CB	GLN N	41	109.769	-15.433	72.112	1.00	80.56
ATOM	23760	CG	GLN N	41	109.699	-14.420	73.232	1.00	84.11
ATOM	23761	CD	GLN N	41	108.329	-13.793	73.349	1.00	86.03
ATOM	23762	OE1	GLN N	41	108.107	-12.919	74.188	1.00	87.40
ATOM	23763	NE2	GLN N	41	107.398	-14.233	72.502	1.00	86.36
ATOM	23764	N	ILE N	42	109.476	-18.668	71.108	1.00	77.45
ATOM	23765	CA	ILE N	42	109.442	-19.572	69.965	1.00	76.24
ATOM	23766	C	ILE N	42	109.611	-21.020	70.413	1.00	76.26
ATOM	23767	O	ILE N	42	110.507	-21.338	71.199	1.00	75.79
ATOM	23768	CB	ILE N	42	110.563	-19.272	68.960	1.00	76.85
ATOM	23769	CG1	ILE N	42	110.428	-17.850	68.418	1.00	75.26
ATOM	23770	CG2	ILE N	42	110.512	-20.284	67.827	1.00	75.62
ATOM	23771	CD1	ILE N	42	111.608	-17.412	67.576	1.00	74.87
ATOM	23772	N	PHE N	43	108.746	-21.894	69.904	1.00	75.82
ATOM	23773	CA	PHE N	43	108.802	-23.310	70.234	1.00	74.91
ATOM	23774	C	PHE N	43	108.680	-24.139	68.968	1.00	74.72
ATOM	23775	O	PHE N	43	108.110	-23.691	67.968	1.00	73.60
ATOM	23776	CB	PHE N	43	107.670	-23.681	71.186	1.00	75.60
ATOM	23777	CG	PHE N	43	107.611	-22.824	72.410	1.00	77.31
ATOM	23778	CD1	PHE N	43	107.177	-21.502	72.328	1.00	76.55
ATOM	23779	CD2	PHE N	43	108.024	-23.326	73.646	1.00	76.69
ATOM	23780	CE1	PHE N	43	107.160	-20.689	73.461	1.00	78.05
ATOM	23781	CE2	PHE N	43	108.011	-22.525	74.785	1.00	76.29
ATOM	23782	CZ	PHE N	43	107.580	-21.204	74.695	1.00	78.23
ATOM	23783	N	CYS N	44	109.227	-25.348	69.015	1.00	74.96
ATOM	23784	CA	CYS N	44	109.174	-26.260	67.881	1.00	75.01
ATOM	23785	C	CYS N	44	108.915	-27.668	68.394	1.00	76.89
ATOM	23786	O	CYS N	44	109.300	-28.015	69.514	1.00	77.32
ATOM	23787	CB	CYS N	44	110.500	-26.286	67.123	1.00	71.78
ATOM	23788	SG	CYS N	44	111.236	-24.694	66.675	1.00	67.94
ATOM	23789	N	HIS N	45	108.270	-28.479	67.565	1.00	78.68
ATOM	23790	CA	HIS N	45	107.995	-29.859	67.925	1.00	79.74
ATOM	23791	C	HIS N	45	108.315	-30.740	66.723	1.00	80.80
ATOM	23792	O	HIS N	45	108.558	-30.243	65.617	1.00	80.94
ATOM	23793	CB	HIS N	45	106.534	-30.025	68.340	1.00	80.75
ATOM	23794	CG	HIS N	45	105.563	-29.848	67.219	1.00	82.57
ATOM	23795	ND1	HIS N	45	105.582	-28.749	66.389	1.00	83.70
ATOM	23796	CD2	HIS N	45	104.547	-30.632	66.786	1.00	83.07
ATOM	23797	CE1	HIS N	45	104.620	-28.865	65.489	1.00	84.94
ATOM	23798	NE2	HIS N	45	103.978	-29.998	65.710	1.00	85.08
ATOM	23799	N	ASN N	46	108.312	-32.049	66.941	1.00	81.75
ATOM	23800	CA	ASN N	46	108.620	-33.007	65.885	1.00	81.90
ATOM	23801	C	ASN N	46	107.346	-33.666	65.344	1.00	82.30
ATOM	23802	O	ASN N	46	106.471	-34.067	66.118	1.00	82.79
ATOM	23803	CB	ASN N	46	109.568	-34.063	66.446	1.00	80.41
ATOM	23804	CG	ASN N	46	110.405	-34.716	65.383	1.00	79.54
ATOM	23805	OD1	ASN N	46	110.821	-34.071	64.420	1.00	79.41
ATOM	23806	ND2	ASN N	46	110.681	-35.998	65.560	1.00	79.39

ATOM	23807	N	ASP	N	47	107.241	-33.777	64.021	1.00	80.99
ATOM	23808	CA	ASP	N	47	106.061	-34.388	63.413	1.00	80.07
ATOM	23809	C	ASP	N	47	106.066	-35.915	63.385	1.00	78.84
ATOM	23810	O	ASP	N	47	105.006	-36.538	63.453	1.00	77.02
ATOM	23811	CB	ASP	N	47	105.849	-33.854	61.994	1.00	80.62
ATOM	23812	CG	ASP	N	47	105.260	-32.459	61.984	1.00	81.88
ATOM	23813	OD1	ASP	N	47	104.412	-32.172	62.858	1.00	80.47
ATOM	23814	OD2	ASP	N	47	105.630	-31.658	61.099	1.00	82.20
ATOM	23815	N	TYR	N	48	107.253	-36.509	63.271	1.00	78.84
ATOM	23816	CA	TYR	N	48	107.405	-37.965	63.248	1.00	78.71
ATOM	23817	C	TYR	N	48	108.466	-38.406	64.251	1.00	76.37
ATOM	23818	O	TYR	N	48	109.486	-38.979	63.865	1.00	74.77
ATOM	23819	CB	TYR	N	48	107.827	-38.459	61.862	1.00	82.79
ATOM	23820	CG	TYR	N	48	106.790	-38.309	60.772	1.00	90.36
ATOM	23821	CD1	TYR	N	48	106.317	-37.046	60.396	1.00	93.60
ATOM	23822	CD2	TYR	N	48	106.339	-39.423	60.053	1.00	93.40
ATOM	23823	CE1	TYR	N	48	105.431	-36.890	59.324	1.00	95.20
ATOM	23824	CE2	TYR	N	48	105.452	-39.277	58.974	1.00	96.12
ATOM	23825	CZ	TYR	N	48	105.012	-38.003	58.614	1.00	95.99
ATOM	23826	OH	TYR	N	48	104.195	-37.831	57.520	1.00	94.53
ATOM	23827	N	PRO	N	49	108.233	-38.156	65.550	1.00	74.34
ATOM	23828	CA	PRO	N	49	109.174	-38.524	66.612	1.00	73.36
ATOM	23829	C	PRO	N	49	109.436	-40.017	66.717	1.00	71.97
ATOM	23830	O	PRO	N	49	110.569	-40.444	66.937	1.00	72.30
ATOM	23831	CB	PRO	N	49	108.512	-37.961	67.868	1.00	74.93
ATOM	23832	CG	PRO	N	49	107.052	-38.079	67.552	1.00	75.66
ATOM	23833	CD	PRO	N	49	107.000	-37.589	66.123	1.00	74.31
ATOM	23834	N	GLU	N	50	108.384	-40.809	66.560	1.00	70.65
ATOM	23835	CA	GLU	N	50	108.505	-42.255	66.648	1.00	70.29
ATOM	23836	C	GLU	N	50	109.601	-42.817	65.741	1.00	70.64
ATOM	23837	O	GLU	N	50	110.351	-43.703	66.148	1.00	71.04
ATOM	23838	CB	GLU	N	50	107.164	-42.910	66.307	1.00	70.06
ATOM	23839	CG	GLU	N	50	106.083	-42.713	67.361	1.00	71.80
ATOM	23840	CD	GLU	N	50	105.787	-41.252	67.653	1.00	72.90
ATOM	23841	OE1	GLU	N	50	105.255	-40.555	66.762	1.00	70.56
ATOM	23842	OE2	GLU	N	50	106.092	-40.801	68.780	1.00	73.94
ATOM	23843	N	THR	N	51	109.706	-42.290	64.522	1.00	70.71
ATOM	23844	CA	THR	N	51	110.699	-42.773	63.562	1.00	70.21
ATOM	23845	C	THR	N	51	111.787	-41.768	63.202	1.00	70.17
ATOM	23846	O	THR	N	51	112.948	-42.134	63.027	1.00	68.77
ATOM	23847	CB	THR	N	51	110.032	-43.194	62.243	1.00	70.55
ATOM	23848	OG1	THR	N	51	108.748	-43.770	62.519	1.00	68.13
ATOM	23849	CG2	THR	N	51	110.913	-44.212	61.505	1.00	67.39
ATOM	23850	N	ILE	N	52	111.410	-40.503	63.078	1.00	71.35
ATOM	23851	CA	ILE	N	52	112.369	-39.467	62.709	1.00	74.27
ATOM	23852	C	ILE	N	52	112.745	-38.535	63.866	1.00	75.07
ATOM	23853	O	ILE	N	52	111.884	-38.099	64.628	1.00	75.94
ATOM	23854	CB	ILE	N	52	111.807	-38.601	61.554	1.00	73.86
ATOM	23855	CG1	ILE	N	52	111.126	-39.502	60.517	1.00	74.98
ATOM	23856	CG2	ILE	N	52	112.934	-37.812	60.901	1.00	72.44
ATOM	23857	CD1	ILE	N	52	110.373	-38.757	59.430	1.00	72.31
ATOM	23858	N	THR	N	53	114.036	-38.243	64.003	1.00	74.93
ATOM	23859	CA	THR	N	53	114.501	-37.324	65.040	1.00	75.40
ATOM	23860	C	THR	N	53	115.212	-36.142	64.371	1.00	74.16
ATOM	23861	O	THR	N	53	116.143	-36.322	63.585	1.00	73.14
ATOM	23862	CB	THR	N	53	115.447	-38.018	66.051	1.00	76.54
ATOM	23863	OG1	THR	N	53	116.311	-38.929	65.363	1.00	80.75
ATOM	23864	CG2	THR	N	53	114.642	-38.771	67.096	1.00	76.72
ATOM	23865	N	ASP	N	54	114.755	-34.934	64.684	1.00	73.69
ATOM	23866	CA	ASP	N	54	115.297	-33.719	64.095	1.00	72.45
ATOM	23867	C	ASP	N	54	116.382	-33.002	64.882	1.00	69.68
ATOM	23868	O	ASP	N	54	116.356	-32.931	66.106	1.00	68.51

ATOM	23869	CB	ASP	N	54	114.156	-32.737	63.805	1.00	77.66
ATOM	23870	CG	ASP	N	54	113.942	-32.509	62.313	1.00	84.04
ATOM	23871	OD1	ASP	N	54	114.875	-31.999	61.640	1.00	86.11
ATOM	23872	OD2	ASP	N	54	112.841	-32.842	61.818	1.00	84.43
ATOM	23873	N	TYR	N	55	117.340	-32.464	64.141	1.00	67.56
ATOM	23874	CA	TYR	N	55	118.449	-31.716	64.711	1.00	66.12
ATOM	23875	C	TYR	N	55	118.200	-30.268	64.330	1.00	65.88
ATOM	23876	O	TYR	N	55	117.990	-29.959	63.155	1.00	68.52
ATOM	23877	CB	TYR	N	55	119.770	-32.185	64.100	1.00	61.24
ATOM	23878	CG	TYR	N	55	119.915	-33.680	64.109	1.00	58.24
ATOM	23879	CD1	TYR	N	55	119.526	-34.427	65.217	1.00	57.68
ATOM	23880	CD2	TYR	N	55	120.437	-34.352	63.009	1.00	55.62
ATOM	23881	CE1	TYR	N	55	119.655	-35.799	65.228	1.00	59.05
ATOM	23882	CE2	TYR	N	55	120.568	-35.724	63.010	1.00	55.35
ATOM	23883	CZ	TYR	N	55	120.177	-36.444	64.123	1.00	58.01
ATOM	23884	OH	TYR	N	55	120.327	-37.811	64.143	1.00	63.00
ATOM	23885	N	VAL	N	56	118.207	-29.377	65.309	1.00	63.41
ATOM	23886	CA	VAL	N	56	117.982	-27.980	65.003	1.00	62.12
ATOM	23887	C	VAL	N	56	119.161	-27.133	65.474	1.00	59.93
ATOM	23888	O	VAL	N	56	119.683	-27.321	66.566	1.00	58.50
ATOM	23889	CB	VAL	N	56	116.676	-27.498	65.644	1.00	63.05
ATOM	23890	CG1	VAL	N	56	116.231	-26.197	65.002	1.00	64.23
ATOM	23891	CG2	VAL	N	56	115.614	-28.564	65.482	1.00	60.57
ATOM	23892	N	THR	N	57	119.577	-26.199	64.634	1.00	58.51
ATOM	23893	CA	THR	N	57	120.707	-25.346	64.959	1.00	57.94
ATOM	23894	C	THR	N	57	120.415	-23.881	64.644	1.00	58.83
ATOM	23895	O	THR	N	57	119.375	-23.550	64.064	1.00	59.45
ATOM	23896	CB	THR	N	57	121.925	-25.756	64.128	1.00	56.07
ATOM	23897	OG1	THR	N	57	121.774	-25.267	62.784	1.00	49.81
ATOM	23898	CG2	THR	N	57	122.028	-27.271	64.081	1.00	55.98
ATOM	23899	N	LEU	N	58	121.335	-23.007	65.047	1.00	57.52
ATOM	23900	CA	LEU	N	58	121.222	-21.585	64.744	1.00	57.90
ATOM	23901	C	LEU	N	58	122.270	-21.326	63.654	1.00	57.71
ATOM	23902	O	LEU	N	58	123.435	-21.031	63.940	1.00	56.46
ATOM	23903	CB	LEU	N	58	121.506	-20.712	65.981	1.00	58.00
ATOM	23904	CG	LEU	N	58	121.514	-19.184	65.742	1.00	57.16
ATOM	23905	CD1	LEU	N	58	120.128	-18.683	65.314	1.00	53.17
ATOM	23906	CD2	LEU	N	58	121.972	-18.476	67.002	1.00	53.89
ATOM	23907	N	GLN	N	59	121.842	-21.480	62.404	1.00	58.77
ATOM	23908	CA	GLN	N	59	122.691	-21.285	61.232	1.00	61.17
ATOM	23909	C	GLN	N	59	123.508	-20.001	61.324	1.00	63.03
ATOM	23910	O	GLN	N	59	124.738	-20.010	61.214	1.00	61.36
ATOM	23911	CB	GLN	N	59	121.815	-21.220	59.983	1.00	64.07
ATOM	23912	CG	GLN	N	59	121.884	-22.420	59.086	1.00	70.07
ATOM	23913	CD	GLN	N	59	123.091	-22.396	58.171	1.00	75.08
ATOM	23914	OE1	GLN	N	59	124.239	-22.514	58.619	1.00	77.57
ATOM	23915	NE2	GLN	N	59	122.839	-22.239	56.874	1.00	76.10
ATOM	23916	N	ARG	N	60	122.797	-18.892	61.505	1.00	64.70
ATOM	23917	CA	ARG	N	60	123.407	-17.579	61.603	1.00	66.40
ATOM	23918	C	ARG	N	60	122.645	-16.766	62.641	1.00	68.14
ATOM	23919	O	ARG	N	60	121.939	-17.305	63.497	1.00	68.20
ATOM	23920	CB	ARG	N	60	123.350	-16.866	60.243	1.00	65.96
ATOM	23921	CG	ARG	N	60	124.285	-15.670	60.111	1.00	68.86
ATOM	23922	CD	ARG	N	60	124.189	-15.009	58.736	1.00	75.52
ATOM	23923	NE	ARG	N	60	123.099	-14.031	58.634	1.00	83.46
ATOM	23924	CZ	ARG	N	60	121.984	-14.182	57.911	1.00	83.36
ATOM	23925	NH1	ARG	N	60	121.777	-15.286	57.201	1.00	83.96
ATOM	23926	NH2	ARG	N	60	121.072	-13.217	57.892	1.00	80.13
ATOM	23927	N	GLY	N	61	122.792	-15.455	62.547	1.00	69.97
ATOM	23928	CA	GLY	N	61	122.132	-14.560	63.469	1.00	69.88
ATOM	23929	C	GLY	N	61	122.759	-13.201	63.275	1.00	68.98
ATOM	23930	O	GLY	N	61	123.867	-12.954	63.754	1.00	70.15

ATOM	23931	N	SER	N	62	122.060	-12.330	62.554	1.00	66.32
ATOM	23932	CA	SER	N	62	122.556	-10.991	62.288	1.00	65.30
ATOM	23933	C	SER	N	62	121.854	-9.944	63.134	1.00	65.08
ATOM	23934	O	SER	N	62	120.639	-9.961	63.260	1.00	66.07
ATOM	23935	CB	SER	N	62	122.376	-10.660	60.813	1.00	63.67
ATOM	23936	OG	SER	N	62	123.034	-11.622	60.015	1.00	64.67
ATOM	23937	N	ALA	N	63	122.634	-9.040	63.719	1.00	65.66
ATOM	23938	CA	ALA	N	63	122.096	-7.968	64.547	1.00	64.93
ATOM	23939	C	ALA	N	63	121.845	-6.745	63.661	1.00	64.30
ATOM	23940	O	ALA	N	63	122.497	-6.583	62.626	1.00	62.20
ATOM	23941	CB	ALA	N	63	123.082	-7.624	65.661	1.00	64.92
ATOM	23942	N	TYR	N	64	120.885	-5.904	64.047	1.00	63.78
ATOM	23943	CA	TYR	N	64	120.567	-4.705	63.278	1.00	63.03
ATOM	23944	C	TYR	N	64	120.375	-3.510	64.192	1.00	62.59
ATOM	23945	O	TYR	N	64	120.479	-3.627	65.418	1.00	63.18
ATOM	23946	CB	TYR	N	64	119.303	-4.910	62.441	1.00	63.73
ATOM	23947	CG	TYR	N	64	119.400	-6.054	61.459	1.00	67.99
ATOM	23948	CD1	TYR	N	64	119.544	-7.368	61.904	1.00	70.66
ATOM	23949	CD2	TYR	N	64	119.387	-5.827	60.083	1.00	68.21
ATOM	23950	CE1	TYR	N	64	119.678	-8.424	61.011	1.00	67.67
ATOM	23951	CE2	TYR	N	64	119.519	-6.884	59.180	1.00	66.67
ATOM	23952	CZ	TYR	N	64	119.666	-8.174	59.657	1.00	67.01
ATOM	23953	OH	TYR	N	64	119.815	-9.222	58.787	1.00	69.73
ATOM	23954	N	GLY	N	65	120.107	-2.361	63.580	1.00	60.30
ATOM	23955	CA	GLY	N	65	119.893	-1.135	64.323	1.00	60.35
ATOM	23956	C	GLY	N	65	120.576	-0.981	65.674	1.00	60.22
ATOM	23957	O	GLY	N	65	121.753	-1.301	65.834	1.00	59.04
ATOM	23958	N	GLY	N	66	119.814	-0.479	66.641	1.00	61.06
ATOM	23959	CA	GLY	N	66	120.315	-0.249	67.983	1.00	63.62
ATOM	23960	C	GLY	N	66	121.262	-1.272	68.580	1.00	65.63
ATOM	23961	O	GLY	N	66	122.193	-0.897	69.295	1.00	65.85
ATOM	23962	N	VAL	N	67	121.029	-2.554	68.303	1.00	67.45
ATOM	23963	CA	VAL	N	67	121.874	-3.631	68.833	1.00	69.07
ATOM	23964	C	VAL	N	67	123.227	-3.688	68.125	1.00	68.32
ATOM	23965	O	VAL	N	67	124.283	-3.866	68.760	1.00	65.90
ATOM	23966	CB	VAL	N	67	121.171	-5.024	68.697	1.00	71.42
ATOM	23967	CG1	VAL	N	67	122.198	-6.158	68.814	1.00	74.63
ATOM	23968	CG2	VAL	N	67	120.122	-5.185	69.793	1.00	71.21
ATOM	23969	N	LEU	N	68	123.171	-3.528	66.805	1.00	67.10
ATOM	23970	CA	LEU	N	68	124.349	-3.559	65.948	1.00	66.22
ATOM	23971	C	LEU	N	68	125.342	-2.411	66.180	1.00	67.17
ATOM	23972	O	LEU	N	68	126.378	-2.342	65.511	1.00	68.04
ATOM	23973	CB	LEU	N	68	123.903	-3.552	64.488	1.00	60.42
ATOM	23974	CG	LEU	N	68	125.013	-3.592	63.451	1.00	56.23
ATOM	23975	CD1	LEU	N	68	125.915	-4.781	63.721	1.00	54.63
ATOM	23976	CD2	LEU	N	68	124.400	-3.680	62.074	1.00	55.40
ATOM	23977	N	SER	N	69	125.045	-1.521	67.125	1.00	65.87
ATOM	23978	CA	SER	N	69	125.932	-0.399	67.376	1.00	63.41
ATOM	23979	C	SER	N	69	125.932	0.108	68.797	1.00	64.76
ATOM	23980	O	SER	N	69	126.578	1.116	69.069	1.00	67.33
ATOM	23981	CB	SER	N	69	125.568	0.768	66.466	1.00	62.87
ATOM	23982	OG	SER	N	69	124.348	1.357	66.879	1.00	59.73
ATOM	23983	N	ASN	N	70	125.220	-0.558	69.704	1.00	65.11
ATOM	23984	CA	ASN	N	70	125.178	-0.098	71.098	1.00	63.55
ATOM	23985	C	ASN	N	70	125.395	-1.162	72.164	1.00	62.78
ATOM	23986	O	ASN	N	70	125.291	-0.882	73.365	1.00	61.05
ATOM	23987	CB	ASN	N	70	123.860	0.629	71.381	1.00	63.11
ATOM	23988	CG	ASN	N	70	123.878	2.080	70.917	1.00	64.01
ATOM	23989	OD1	ASN	N	70	124.614	2.918	71.461	1.00	59.61
ATOM	23990	ND2	ASN	N	70	123.071	2.384	69.902	1.00	63.52
ATOM	23991	N	PHE	N	71	125.701	-2.382	71.742	1.00	63.24
ATOM	23992	CA	PHE	N	71	125.918	-3.432	72.719	1.00	64.30

ATOM	23993	C	PHE	N	71	126.927	-4.463	72.275	1.00	63.56
ATOM	23994	O	PHE	N	71	126.976	-4.825	71.110	1.00	63.37
ATOM	23995	CB	PHE	N	71	124.597	-4.141	73.050	1.00	67.32
ATOM	23996	CG	PHE	N	71	123.440	-3.203	73.306	1.00	66.69
ATOM	23997	CD1	PHE	N	71	122.668	-2.724	72.242	1.00	65.92
ATOM	23998	CD2	PHE	N	71	123.132	-2.792	74.599	1.00	63.35
ATOM	23999	CE1	PHE	N	71	121.614	-1.856	72.459	1.00	62.88
ATOM	24000	CE2	PHE	N	71	122.081	-1.924	74.832	1.00	63.71
ATOM	24001	CZ	PHE	N	71	121.316	-1.452	73.758	1.00	65.69
ATOM	24002	N	SER	N	72	127.736	-4.926	73.219	1.00	64.79
ATOM	24003	CA	SER	N	72	128.728	-5.957	72.944	1.00	66.26
ATOM	24004	C	SER	N	72	128.106	-7.241	73.470	1.00	66.81
ATOM	24005	O	SER	N	72	127.991	-7.425	74.679	1.00	66.41
ATOM	24006	CB	SER	N	72	130.035	-5.682	73.696	1.00	66.69
ATOM	24007	OG	SER	N	72	129.899	-5.892	75.094	1.00	66.96
ATOM	24008	N	GLY	N	73	127.696	-8.128	72.571	1.00	68.13
ATOM	24009	CA	GLY	N	73	127.076	-9.354	73.037	1.00	70.74
ATOM	24010	C	GLY	N	73	127.369	-10.688	72.371	1.00	70.06
ATOM	24011	O	GLY	N	73	127.964	-10.778	71.299	1.00	68.62
ATOM	24012	N	THR	N	74	126.931	-11.738	73.053	1.00	70.91
ATOM	24013	CA	THR	N	74	127.079	-13.100	72.581	1.00	71.95
ATOM	24014	C	THR	N	74	125.676	-13.698	72.492	1.00	71.79
ATOM	24015	O	THR	N	74	124.686	-13.009	72.721	1.00	71.09
ATOM	24016	CB	THR	N	74	127.900	-13.943	73.564	1.00	71.18
ATOM	24017	OG1	THR	N	74	127.301	-13.863	74.859	1.00	72.22
ATOM	24018	CG2	THR	N	74	129.323	-13.451	73.634	1.00	68.20
ATOM	24019	N	VAL	N	75	125.600	-14.980	72.153	1.00	72.76
ATOM	24020	CA	VAL	N	75	124.326	-15.668	72.050	1.00	73.10
ATOM	24021	C	VAL	N	75	124.413	-16.955	72.857	1.00	74.04
ATOM	24022	O	VAL	N	75	125.364	-17.734	72.711	1.00	72.86
ATOM	24023	CB	VAL	N	75	123.976	-16.006	70.584	1.00	72.53
ATOM	24024	CG1	VAL	N	75	124.929	-17.065	70.050	1.00	73.07
ATOM	24025	CG2	VAL	N	75	122.534	-16.479	70.489	1.00	70.87
ATOM	24026	N	LYS	N	76	123.429	-17.153	73.731	1.00	74.93
ATOM	24027	CA	LYS	N	76	123.370	-18.346	74.564	1.00	75.36
ATOM	24028	C	LYS	N	76	122.549	-19.370	73.812	1.00	73.66
ATOM	24029	O	LYS	N	76	121.356	-19.144	73.582	1.00	73.35
ATOM	24030	CB	LYS	N	76	122.689	-18.041	75.900	1.00	77.09
ATOM	24031	CG	LYS	N	76	122.494	-19.269	76.786	1.00	80.29
ATOM	24032	CD	LYS	N	76	121.644	-18.946	78.013	1.00	84.94
ATOM	24033	CE	LYS	N	76	121.467	-20.163	78.927	1.00	86.96
ATOM	24034	NZ	LYS	N	76	120.738	-19.819	80.187	1.00	87.41
ATOM	24035	N	TYR	N	77	123.180	-20.475	73.417	1.00	71.45
ATOM	24036	CA	TYR	N	77	122.464	-21.524	72.694	1.00	71.38
ATOM	24037	C	TYR	N	77	122.563	-22.887	73.363	1.00	71.04
ATOM	24038	O	TYR	N	77	123.472	-23.668	73.073	1.00	71.81
ATOM	24039	CB	TYR	N	77	122.965	-21.659	71.259	1.00	70.44
ATOM	24040	CG	TYR	N	77	122.124	-22.624	70.451	1.00	70.19
ATOM	24041	CD1	TYR	N	77	120.810	-22.306	70.113	1.00	70.31
ATOM	24042	CD2	TYR	N	77	122.627	-23.864	70.053	1.00	69.63
ATOM	24043	CE1	TYR	N	77	120.014	-23.193	69.402	1.00	72.40
ATOM	24044	CE2	TYR	N	77	121.840	-24.764	69.338	1.00	71.42
ATOM	24045	CZ	TYR	N	77	120.530	-24.421	69.015	1.00	74.05
ATOM	24046	OH	TYR	N	77	119.729	-25.294	68.302	1.00	77.80
ATOM	24047	N	SER	N	78	121.620	-23.177	74.251	1.00	69.38
ATOM	24048	CA	SER	N	78	121.613	-24.449	74.938	1.00	69.47
ATOM	24049	C	SER	N	78	122.889	-24.653	75.755	1.00	70.12
ATOM	24050	O	SER	N	78	123.765	-25.437	75.375	1.00	69.57
ATOM	24051	CB	SER	N	78	121.456	-25.580	73.919	1.00	69.46
ATOM	24052	OG	SER	N	78	121.415	-26.849	74.546	1.00	71.16
ATOM	24053	N	GLY	N	79	122.988	-23.934	76.874	1.00	70.62
ATOM	24054	CA	GLY	N	79	124.138	-24.062	77.759	1.00	69.82

ATOM	24055	C	GLY	N	79	125.370	-23.259	77.386	1.00	68.80
ATOM	24056	O	GLY	N	79	125.901	-22.508	78.209	1.00	66.82
ATOM	24057	N	SER	N	80	125.836	-23.429	76.152	1.00	67.13
ATOM	24058	CA	SER	N	80	127.005	-22.710	75.677	1.00	66.47
ATOM	24059	C	SER	N	80	126.656	-21.351	75.078	1.00	67.26
ATOM	24060	O	SER	N	80	125.503	-21.089	74.706	1.00	68.05
ATOM	24061	CB	SER	N	80	127.761	-23.548	74.647	1.00	66.52
ATOM	24062	OG	SER	N	80	128.530	-24.558	75.281	1.00	66.94
ATOM	24063	N	SER	N	81	127.669	-20.490	74.999	1.00	67.20
ATOM	24064	CA	SER	N	81	127.533	-19.138	74.462	1.00	65.39
ATOM	24065	C	SER	N	81	128.490	-18.966	73.286	1.00	63.48
ATOM	24066	O	SER	N	81	129.617	-19.475	73.295	1.00	60.60
ATOM	24067	CB	SER	N	81	127.873	-18.109	75.542	1.00	68.30
ATOM	24068	OG	SER	N	81	127.341	-18.490	76.802	1.00	71.18
ATOM	24069	N	TYR	N	82	128.037	-18.245	72.269	1.00	62.27
ATOM	24070	CA	TYR	N	82	128.860	-18.013	71.091	1.00	59.40
ATOM	24071	C	TYR	N	82	128.752	-16.533	70.705	1.00	56.93
ATOM	24072	O	TYR	N	82	127.749	-15.885	70.985	1.00	55.56
ATOM	24073	CB	TYR	N	82	128.389	-18.908	69.934	1.00	58.89
ATOM	24074	CG	TYR	N	82	128.272	-20.392	70.268	1.00	58.35
ATOM	24075	CD1	TYR	N	82	127.195	-20.890	71.019	1.00	58.43
ATOM	24076	CD2	TYR	N	82	129.228	-21.299	69.823	1.00	57.82
ATOM	24077	CE1	TYR	N	82	127.080	-22.257	71.315	1.00	56.40
ATOM	24078	CE2	TYR	N	82	129.121	-22.660	70.111	1.00	59.27
ATOM	24079	CZ	TYR	N	82	128.050	-23.134	70.856	1.00	58.71
ATOM	24080	OH	TYR	N	82	127.973	-24.484	71.130	1.00	57.22
ATOM	24081	N	PRO	N	83	129.787	-15.980	70.062	1.00	54.50
ATOM	24082	CA	PRO	N	83	129.752	-14.572	69.666	1.00	52.17
ATOM	24083	C	PRO	N	83	128.535	-14.232	68.803	1.00	52.64
ATOM	24084	O	PRO	N	83	128.229	-14.935	67.845	1.00	54.86
ATOM	24085	CB	PRO	N	83	131.050	-14.400	68.881	1.00	51.97
ATOM	24086	CG	PRO	N	83	131.950	-15.447	69.439	1.00	53.61
ATOM	24087	CD	PRO	N	83	131.039	-16.624	69.622	1.00	53.99
ATOM	24088	N	PHE	N	84	127.834	-13.159	69.142	1.00	52.45
ATOM	24089	CA	PHE	N	84	126.687	-12.728	68.351	1.00	53.41
ATOM	24090	C	PHE	N	84	126.969	-11.299	67.902	1.00	54.40
ATOM	24091	O	PHE	N	84	127.321	-10.455	68.721	1.00	54.59
ATOM	24092	CB	PHE	N	84	125.395	-12.745	69.173	1.00	52.32
ATOM	24093	CG	PHE	N	84	124.261	-12.006	68.514	1.00	51.46
ATOM	24094	CD1	PHE	N	84	123.690	-12.485	67.338	1.00	52.69
ATOM	24095	CD2	PHE	N	84	123.806	-10.801	69.033	1.00	50.39
ATOM	24096	CE1	PHE	N	84	122.679	-11.770	66.682	1.00	53.55
ATOM	24097	CE2	PHE	N	84	122.799	-10.073	68.391	1.00	51.02
ATOM	24098	CZ	PHE	N	84	122.234	-10.558	67.208	1.00	52.63
ATOM	24099	N	PRO	N	85	126.829	-11.002	66.598	1.00	55.85
ATOM	24100	CA	PRO	N	85	126.442	-11.846	65.460	1.00	56.50
ATOM	24101	C	PRO	N	85	127.213	-13.156	65.389	1.00	58.30
ATOM	24102	O	PRO	N	85	128.425	-13.181	65.613	1.00	59.82
ATOM	24103	CB	PRO	N	85	126.745	-10.960	64.263	1.00	54.39
ATOM	24104	CG	PRO	N	85	126.478	-9.599	64.795	1.00	55.26
ATOM	24105	CD	PRO	N	85	127.130	-9.635	66.139	1.00	54.05
ATOM	24106	N	THR	N	86	126.512	-14.242	65.077	1.00	58.64
ATOM	24107	CA	THR	N	86	127.158	-15.545	64.970	1.00	58.18
ATOM	24108	C	THR	N	86	128.115	-15.562	63.780	1.00	56.89
ATOM	24109	O	THR	N	86	127.847	-14.958	62.736	1.00	56.32
ATOM	24110	CB	THR	N	86	126.124	-16.676	64.787	1.00	58.74
ATOM	24111	OG1	THR	N	86	125.394	-16.473	63.574	1.00	60.45
ATOM	24112	CG2	THR	N	86	125.154	-16.697	65.948	1.00	61.41
ATOM	24113	N	THR	N	87	129.242	-16.240	63.949	1.00	54.72
ATOM	24114	CA	THR	N	87	130.231	-16.351	62.885	1.00	53.57
ATOM	24115	C	THR	N	87	130.257	-17.790	62.340	1.00	52.29
ATOM	24116	O	THR	N	87	131.044	-18.117	61.463	1.00	48.13

ATOM	24117	CB	THR	N	87	131.650	-15.941	63.394	1.00	53.97
ATOM	24118	OG1	THR	N	87	132.027	-16.753	64.515	1.00	54.53
ATOM	24119	CG2	THR	N	87	131.663	-14.484	63.824	1.00	53.93
ATOM	24120	N	SER	N	88	129.365	-18.634	62.855	1.00	53.96
ATOM	24121	CA	SER	N	88	129.279	-20.036	62.453	1.00	55.76
ATOM	24122	C	SER	N	88	127.937	-20.652	62.846	1.00	57.67
ATOM	24123	O	SER	N	88	127.151	-20.040	63.578	1.00	58.17
ATOM	24124	CB	SER	N	88	130.390	-20.829	63.127	1.00	56.25
ATOM	24125	OG	SER	N	88	131.628	-20.163	62.988	1.00	57.27
ATOM	24126	N	GLU	N	89	127.684	-21.868	62.364	1.00	58.99
ATOM	24127	CA	GLU	N	89	126.438	-22.577	62.672	1.00	61.37
ATOM	24128	C	GLU	N	89	126.657	-23.439	63.904	1.00	61.57
ATOM	24129	O	GLU	N	89	127.469	-24.355	63.873	1.00	64.23
ATOM	24130	CB	GLU	N	89	126.015	-23.466	61.500	1.00	61.13
ATOM	24131	CG	GLU	N	89	124.831	-24.363	61.828	1.00	64.01
ATOM	24132	CD	GLU	N	89	124.606	-25.445	60.787	1.00	65.75
ATOM	24133	OE1	GLU	N	89	125.598	-26.076	60.363	1.00	67.49
ATOM	24134	OE2	GLU	N	89	123.439	-25.679	60.404	1.00	66.05
ATOM	24135	N	THR	N	90	125.931	-23.153	64.980	1.00	62.06
ATOM	24136	CA	THR	N	90	126.088	-23.895	66.230	1.00	63.18
ATOM	24137	C	THR	N	90	125.863	-25.399	66.062	1.00	64.66
ATOM	24138	O	THR	N	90	125.435	-25.853	64.998	1.00	63.50
ATOM	24139	CB	THR	N	90	125.127	-23.353	67.325	1.00	62.17
ATOM	24140	OG1	THR	N	90	123.771	-23.605	66.949	1.00	65.87
ATOM	24141	CG2	THR	N	90	125.313	-21.863	67.507	1.00	59.21
ATOM	24142	N	PRO	N	91	126.176	-26.193	67.108	1.00	66.85
ATOM	24143	CA	PRO	N	91	126.016	-27.656	67.112	1.00	69.79
ATOM	24144	C	PRO	N	91	124.570	-28.045	66.813	1.00	71.10
ATOM	24145	O	PRO	N	91	123.841	-27.274	66.194	1.00	73.28
ATOM	24146	CB	PRO	N	91	126.423	-28.040	68.533	1.00	70.93
ATOM	24147	CG	PRO	N	91	127.459	-27.021	68.870	1.00	71.10
ATOM	24148	CD	PRO	N	91	126.845	-25.743	68.343	1.00	68.44
ATOM	24149	N	ARG	N	92	124.149	-29.230	67.246	1.00	71.96
ATOM	24150	CA	ARG	N	92	122.768	-29.641	67.016	1.00	74.71
ATOM	24151	C	ARG	N	92	121.994	-29.993	68.291	1.00	74.48
ATOM	24152	O	ARG	N	92	122.475	-30.729	69.153	1.00	73.69
ATOM	24153	CB	ARG	N	92	122.702	-30.824	66.039	1.00	77.91
ATOM	24154	CG	ARG	N	92	123.260	-32.145	66.567	1.00	85.94
ATOM	24155	CD	ARG	N	92	122.809	-33.316	65.679	1.00	90.99
ATOM	24156	NE	ARG	N	92	123.457	-34.596	65.992	1.00	94.57
ATOM	24157	CZ	ARG	N	92	123.375	-35.236	67.158	1.00	95.83
ATOM	24158	NH1	ARG	N	92	122.668	-34.730	68.165	1.00	94.83
ATOM	24159	NH2	ARG	N	92	124.004	-36.397	67.312	1.00	96.12
ATOM	24160	N	VAL	N	93	120.792	-29.437	68.406	1.00	75.22
ATOM	24161	CA	VAL	N	93	119.913	-29.713	69.534	1.00	76.14
ATOM	24162	C	VAL	N	93	118.846	-30.663	68.985	1.00	78.09
ATOM	24163	O	VAL	N	93	118.076	-30.295	68.092	1.00	77.64
ATOM	24164	CB	VAL	N	93	119.235	-28.433	70.049	1.00	74.75
ATOM	24165	CG1	VAL	N	93	118.292	-28.768	71.191	1.00	76.20
ATOM	24166	CG2	VAL	N	93	120.282	-27.448	70.509	1.00	74.65
ATOM	24167	N	VAL	N	94	118.809	-31.888	69.506	1.00	79.43
ATOM	24168	CA	VAL	N	94	117.852	-32.874	69.031	1.00	79.32
ATOM	24169	C	VAL	N	94	116.431	-32.511	69.399	1.00	80.73
ATOM	24170	O	VAL	N	94	116.142	-32.124	70.528	1.00	81.03
ATOM	24171	CB	VAL	N	94	118.173	-34.279	69.574	1.00	78.87
ATOM	24172	CG1	VAL	N	94	119.541	-34.724	69.075	1.00	79.93
ATOM	24173	CG2	VAL	N	94	118.135	-34.278	71.084	1.00	80.70
ATOM	24174	N	TYR	N	95	115.552	-32.630	68.413	1.00	83.50
ATOM	24175	CA	TYR	N	95	114.133	-32.337	68.556	1.00	85.83
ATOM	24176	C	TYR	N	95	113.335	-33.562	68.107	1.00	86.29
ATOM	24177	O	TYR	N	95	113.514	-34.045	66.992	1.00	87.79
ATOM	24178	CB	TYR	N	95	113.766	-31.132	67.687	1.00	86.80

ATOM	24179	CG	TYR	N	95	113.869	-29.804	68.400	1.00	90.40
ATOM	24180	CD1	TYR	N	95	115.023	-29.443	69.097	1.00	91.21
ATOM	24181	CD2	TYR	N	95	112.799	-28.906	68.387	1.00	92.51
ATOM	24182	CE1	TYR	N	95	115.104	-28.218	69.767	1.00	92.83
ATOM	24183	CE2	TYR	N	95	112.869	-27.683	69.050	1.00	92.62
ATOM	24184	CZ	TYR	N	95	114.019	-27.344	69.737	1.00	93.82
ATOM	24185	OH	TYR	N	95	114.069	-26.138	70.400	1.00	95.69
ATOM	24186	N	ASN	N	96	112.461	-34.071	68.966	1.00	86.30
ATOM	24187	CA	ASN	N	96	111.668	-35.238	68.598	1.00	85.72
ATOM	24188	C	ASN	N	96	110.534	-35.567	69.564	1.00	85.71
ATOM	24189	O	ASN	N	96	110.646	-36.473	70.396	1.00	84.98
ATOM	24190	CB	ASN	N	96	112.580	-36.458	68.414	1.00	84.08
ATOM	24191	CG	ASN	N	96	113.603	-36.604	69.523	1.00	82.35
ATOM	24192	OD1	ASN	N	96	114.383	-37.558	69.540	1.00	80.58
ATOM	24193	ND2	ASN	N	96	113.610	-35.658	70.453	1.00	81.90
ATOM	24194	N	SER	N	97	109.443	-34.819	69.430	1.00	85.50
ATOM	24195	CA	SER	N	97	108.247	-34.986	70.249	1.00	86.80
ATOM	24196	C	SER	N	97	107.152	-34.127	69.643	1.00	86.29
ATOM	24197	O	SER	N	97	107.362	-32.950	69.375	1.00	86.53
ATOM	24198	CB	SER	N	97	108.501	-34.536	71.692	1.00	88.08
ATOM	24199	OG	SER	N	97	109.430	-35.382	72.349	1.00	90.60
ATOM	24200	N	ARG	N	98	105.986	-34.713	69.414	1.00	86.61
ATOM	24201	CA	ARG	N	98	104.880	-33.960	68.842	1.00	87.14
ATOM	24202	C	ARG	N	98	104.637	-32.737	69.717	1.00	87.34
ATOM	24203	O	ARG	N	98	104.131	-31.718	69.252	1.00	85.89
ATOM	24204	CB	ARG	N	98	103.626	-34.834	68.796	1.00	87.92
ATOM	24205	CG	ARG	N	98	103.808	-36.110	67.992	1.00	89.83
ATOM	24206	CD	ARG	N	98	103.194	-35.997	66.601	1.00	90.88
ATOM	24207	NE	ARG	N	98	103.701	-37.012	65.673	1.00	91.22
ATOM	24208	CZ	ARG	N	98	103.758	-38.321	65.920	1.00	89.23
ATOM	24209	NH1	ARG	N	98	103.341	-38.817	67.077	1.00	86.59
ATOM	24210	NH2	ARG	N	98	104.235	-39.143	64.997	1.00	89.91
ATOM	24211	N	THR	N	99	105.015	-32.860	70.990	1.00	88.66
ATOM	24212	CA	THR	N	99	104.858	-31.794	71.980	1.00	88.61
ATOM	24213	C	THR	N	99	105.887	-30.701	71.707	1.00	89.52
ATOM	24214	O	THR	N	99	107.001	-30.989	71.262	1.00	89.38
ATOM	24215	CB	THR	N	99	105.081	-32.327	73.425	1.00	88.14
ATOM	24216	OG1	THR	N	99	104.221	-33.448	73.676	1.00	86.57
ATOM	24217	CG2	THR	N	99	104.784	-31.237	74.444	1.00	86.50
ATOM	24218	N	ASP	N	100	105.524	-29.450	71.978	1.00	89.82
ATOM	24219	CA	ASP	N	100	106.447	-28.345	71.745	1.00	89.81
ATOM	24220	C	ASP	N	100	107.592	-28.257	72.748	1.00	90.50
ATOM	24221	O	ASP	N	100	107.547	-28.820	73.841	1.00	91.59
ATOM	24222	CB	ASP	N	100	105.704	-27.010	71.715	1.00	87.59
ATOM	24223	CG	ASP	N	100	104.936	-26.802	70.430	1.00	86.85
ATOM	24224	OD1	ASP	N	100	105.528	-26.948	69.339	1.00	85.05
ATOM	24225	OD2	ASP	N	100	103.735	-26.485	70.509	1.00	88.92
ATOM	24226	N	LYS	N	101	108.624	-27.532	72.350	1.00	90.47
ATOM	24227	CA	LYS	N	101	109.797	-27.342	73.175	1.00	90.39
ATOM	24228	C	LYS	N	101	110.345	-25.976	72.774	1.00	92.45
ATOM	24229	O	LYS	N	101	110.184	-25.544	71.626	1.00	93.05
ATOM	24230	CB	LYS	N	101	110.814	-28.447	72.877	1.00	88.17
ATOM	24231	CG	LYS	N	101	112.070	-28.436	73.730	1.00	85.52
ATOM	24232	CD	LYS	N	101	112.944	-29.635	73.384	1.00	82.73
ATOM	24233	CE	LYS	N	101	114.169	-29.723	74.272	1.00	81.93
ATOM	24234	NZ	LYS	N	101	114.955	-30.950	73.979	1.00	78.92
ATOM	24235	N	PRO	N	102	110.965	-25.258	73.720	1.00	92.67
ATOM	24236	CA	PRO	N	102	111.506	-23.943	73.366	1.00	90.08
ATOM	24237	C	PRO	N	102	112.795	-24.094	72.563	1.00	88.01
ATOM	24238	O	PRO	N	102	113.490	-25.108	72.677	1.00	86.15
ATOM	24239	CB	PRO	N	102	111.770	-23.295	74.729	1.00	90.83
ATOM	24240	CG	PRO	N	102	110.830	-24.016	75.664	1.00	92.49

ATOM	24241	CD	PRO	N	102	110.941	-25.437	75.183	1.00	93.23
ATOM	24242	N	TRP	N	103	113.097	-23.091	71.743	1.00	86.18
ATOM	24243	CA	TRP	N	103	114.329	-23.086	70.963	1.00	82.37
ATOM	24244	C	TRP	N	103	115.308	-22.380	71.880	1.00	80.62
ATOM	24245	O	TRP	N	103	115.265	-21.163	72.024	1.00	80.30
ATOM	24246	CB	TRP	N	103	114.156	-22.289	69.669	1.00	81.24
ATOM	24247	CG	TRP	N	103	115.275	-22.475	68.696	1.00	79.46
ATOM	24248	CD1	TRP	N	103	115.970	-23.622	68.465	1.00	79.34
ATOM	24249	CD2	TRP	N	103	115.772	-21.509	67.758	1.00	79.93
ATOM	24250	NE1	TRP	N	103	116.865	-23.438	67.440	1.00	80.98
ATOM	24251	CE2	TRP	N	103	116.764	-22.148	66.988	1.00	80.34
ATOM	24252	CE3	TRP	N	103	115.473	-20.166	67.492	1.00	80.15
ATOM	24253	CZ2	TRP	N	103	117.464	-21.489	65.964	1.00	79.50
ATOM	24254	CZ3	TRP	N	103	116.172	-19.510	66.470	1.00	78.71
ATOM	24255	CH2	TRP	N	103	117.154	-20.175	65.723	1.00	76.23
ATOM	24256	N	PRO	N	104	116.192	-23.144	72.530	1.00	79.00
ATOM	24257	CA	PRO	N	104	117.203	-22.634	73.459	1.00	78.42
ATOM	24258	C	PRO	N	104	118.078	-21.525	72.874	1.00	77.70
ATOM	24259	O	PRO	N	104	119.273	-21.715	72.664	1.00	75.95
ATOM	24260	CB	PRO	N	104	118.010	-23.882	73.791	1.00	79.65
ATOM	24261	CG	PRO	N	104	117.960	-24.650	72.496	1.00	80.19
ATOM	24262	CD	PRO	N	104	116.496	-24.532	72.141	1.00	78.78
ATOM	24263	N	VAL	N	105	117.481	-20.369	72.617	1.00	77.56
ATOM	24264	CA	VAL	N	105	118.222	-19.253	72.054	1.00	78.24
ATOM	24265	C	VAL	N	105	118.005	-17.971	72.838	1.00	78.93
ATOM	24266	O	VAL	N	105	116.949	-17.330	72.735	1.00	78.05
ATOM	24267	CB	VAL	N	105	117.825	-18.996	70.591	1.00	77.74
ATOM	24268	CG1	VAL	N	105	118.633	-17.834	70.034	1.00	77.11
ATOM	24269	CG2	VAL	N	105	118.056	-20.249	69.769	1.00	79.57
ATOM	24270	N	ALA	N	106	119.019	-17.600	73.615	1.00	78.43
ATOM	24271	CA	ALA	N	106	118.960	-16.387	74.414	1.00	76.88
ATOM	24272	C	ALA	N	106	120.124	-15.444	74.092	1.00	75.90
ATOM	24273	O	ALA	N	106	121.295	-15.849	74.064	1.00	72.19
ATOM	24274	CB	ALA	N	106	118.952	-16.742	75.896	1.00	78.27
ATOM	24275	N	LEU	N	107	119.768	-14.185	73.841	1.00	74.63
ATOM	24276	CA	LEU	N	107	120.714	-13.123	73.520	1.00	72.17
ATOM	24277	C	LEU	N	107	121.144	-12.376	74.770	1.00	72.71
ATOM	24278	O	LEU	N	107	120.309	-11.965	75.570	1.00	71.17
ATOM	24279	CB	LEU	N	107	120.068	-12.133	72.557	1.00	68.44
ATOM	24280	CG	LEU	N	107	120.553	-12.157	71.115	1.00	67.19
ATOM	24281	CD1	LEU	N	107	120.720	-13.593	70.645	1.00	66.92
ATOM	24282	CD2	LEU	N	107	119.563	-11.387	70.246	1.00	63.67
ATOM	24283	N	TYR	N	108	122.449	-12.198	74.936	1.00	75.15
ATOM	24284	CA	TYR	N	108	122.969	-11.482	76.094	1.00	77.81
ATOM	24285	C	TYR	N	108	123.820	-10.270	75.712	1.00	78.35
ATOM	24286	O	TYR	N	108	125.051	-10.284	75.833	1.00	77.87
ATOM	24287	CB	TYR	N	108	123.748	-12.438	77.003	1.00	78.63
ATOM	24288	CG	TYR	N	108	122.843	-13.459	77.648	1.00	80.38
ATOM	24289	CD1	TYR	N	108	122.163	-14.387	76.874	1.00	81.38
ATOM	24290	CD2	TYR	N	108	122.611	-13.455	79.024	1.00	81.41
ATOM	24291	CE1	TYR	N	108	121.272	-15.281	77.442	1.00	83.50
ATOM	24292	CE2	TYR	N	108	121.714	-14.353	79.607	1.00	82.00
ATOM	24293	CZ	TYR	N	108	121.045	-15.264	78.804	1.00	82.79
ATOM	24294	OH	TYR	N	108	120.135	-16.156	79.335	1.00	82.48
ATOM	24295	N	LEU	N	109	123.125	-9.225	75.258	1.00	77.69
ATOM	24296	CA	LEU	N	109	123.721	-7.959	74.847	1.00	76.80
ATOM	24297	C	LEU	N	109	124.107	-7.126	76.078	1.00	77.16
ATOM	24298	O	LEU	N	109	123.714	-7.443	77.202	1.00	76.10
ATOM	24299	CB	LEU	N	109	122.714	-7.170	74.006	1.00	75.35
ATOM	24300	CG	LEU	N	109	121.855	-7.938	72.997	1.00	76.28
ATOM	24301	CD1	LEU	N	109	120.837	-6.981	72.384	1.00	74.11
ATOM	24302	CD2	LEU	N	109	122.728	-8.573	71.915	1.00	75.30

ATOM	24303	N	THR	N	110	124.874	-6.060	75.858	1.00	77.54
ATOM	24304	CA	THR	N	110	125.297	-5.173	76.943	1.00	76.75
ATOM	24305	C	THR	N	110	125.602	-3.781	76.391	1.00	77.93
ATOM	24306	O	THR	N	110	126.209	-3.643	75.332	1.00	77.45
ATOM	24307	CB	THR	N	110	126.551	-5.703	77.653	1.00	73.70
ATOM	24308	OG1	THR	N	110	126.373	-7.086	77.973	1.00	74.11
ATOM	24309	CG2	THR	N	110	126.788	-4.930	78.935	1.00	72.02
ATOM	24310	N	PRO	N	111	125.192	-2.727	77.114	1.00	78.89
ATOM	24311	CA	PRO	N	111	125.423	-1.343	76.677	1.00	78.37
ATOM	24312	C	PRO	N	111	126.895	-0.927	76.633	1.00	77.35
ATOM	24313	O	PRO	N	111	127.706	-1.391	77.443	1.00	76.16
ATOM	24314	CB	PRO	N	111	124.640	-0.519	77.707	1.00	80.10
ATOM	24315	CG	PRO	N	111	123.631	-1.491	78.268	1.00	79.21
ATOM	24316	CD	PRO	N	111	124.432	-2.753	78.375	1.00	78.86
ATOM	24317	N	VAL	N	112	127.231	-0.053	75.685	1.00	75.99
ATOM	24318	CA	VAL	N	112	128.595	0.464	75.559	1.00	74.38
ATOM	24319	C	VAL	N	112	128.567	1.972	75.783	1.00	74.67
ATOM	24320	O	VAL	N	112	127.615	2.646	75.383	1.00	73.70
ATOM	24321	CB	VAL	N	112	129.218	0.202	74.156	1.00	71.92
ATOM	24322	CG1	VAL	N	112	129.619	-1.251	74.022	1.00	69.79
ATOM	24323	CG2	VAL	N	112	128.235	0.598	73.063	1.00	71.29
ATOM	24324	N	SER	N	113	129.610	2.488	76.429	1.00	74.39
ATOM	24325	CA	SER	N	113	129.723	3.915	76.702	1.00	74.78
ATOM	24326	C	SER	N	113	129.097	4.733	75.586	1.00	76.38
ATOM	24327	O	SER	N	113	128.276	5.607	75.836	1.00	76.06
ATOM	24328	CB	SER	N	113	131.191	4.310	76.845	1.00	74.70
ATOM	24329	OG	SER	N	113	131.795	3.653	77.942	1.00	73.40
ATOM	24330	N	SER	N	114	129.490	4.443	74.351	1.00	79.24
ATOM	24331	CA	SER	N	114	128.955	5.156	73.201	1.00	84.25
ATOM	24332	C	SER	N	114	127.473	4.852	73.006	1.00	88.89
ATOM	24333	O	SER	N	114	127.070	4.261	71.999	1.00	90.95
ATOM	24334	CB	SER	N	114	129.744	4.791	71.939	1.00	82.62
ATOM	24335	OG	SER	N	114	129.951	3.395	71.840	1.00	80.22
ATOM	24336	N	ALA	N	115	126.666	5.264	73.979	1.00	92.80
ATOM	24337	CA	ALA	N	115	125.218	5.051	73.943	1.00	96.27
ATOM	24338	C	ALA	N	115	124.490	6.206	74.642	1.00	98.13
ATOM	24339	O	ALA	N	115	124.814	6.553	75.782	1.00	99.03
ATOM	24340	CB	ALA	N	115	124.873	3.721	74.617	1.00	94.97
ATOM	24341	N	GLY	N	116	123.510	6.797	73.961	1.00	99.44
ATOM	24342	CA	GLY	N	116	122.772	7.909	74.538	1.00	101.59
ATOM	24343	C	GLY	N	116	121.643	7.509	75.473	1.00	103.24
ATOM	24344	O	GLY	N	116	121.751	7.635	76.698	1.00	102.75
ATOM	24345	N	GLY	N	117	120.550	7.035	74.886	1.00	104.35
ATOM	24346	CA	GLY	N	117	119.401	6.617	75.666	1.00	105.57
ATOM	24347	C	GLY	N	117	118.517	5.691	74.854	1.00	106.30
ATOM	24348	O	GLY	N	117	118.506	4.483	75.075	1.00	106.41
ATOM	24349	N	VAL	N	118	117.770	6.257	73.910	1.00	106.83
ATOM	24350	CA	VAL	N	118	116.896	5.457	73.064	1.00	107.23
ATOM	24351	C	VAL	N	118	117.767	4.673	72.087	1.00	108.36
ATOM	24352	O	VAL	N	118	117.824	4.990	70.897	1.00	109.49
ATOM	24353	CB	VAL	N	118	115.902	6.341	72.260	1.00	106.32
ATOM	24354	CG1	VAL	N	118	115.010	5.464	71.389	1.00	105.20
ATOM	24355	CG2	VAL	N	118	115.051	7.178	73.208	1.00	104.75
ATOM	24356	N	ALA	N	119	118.457	3.658	72.604	1.00	108.50
ATOM	24357	CA	ALA	N	119	119.328	2.811	71.792	1.00	107.64
ATOM	24358	C	ALA	N	119	118.498	2.040	70.762	1.00	107.41
ATOM	24359	O	ALA	N	119	118.894	1.895	69.601	1.00	107.43
ATOM	24360	CB	ALA	N	119	120.092	1.838	72.692	1.00	105.88
ATOM	24361	N	ILE	N	120	117.337	1.560	71.194	1.00	106.96
ATOM	24362	CA	ILE	N	120	116.446	0.804	70.324	1.00	105.97
ATOM	24363	C	ILE	N	120	115.122	1.532	70.107	1.00	105.12
ATOM	24364	O	ILE	N	120	114.495	1.995	71.059	1.00	105.01

ATOM	24365	CB	ILE N 120	116.159	-0.600	70.921	1.00105.81
ATOM	24366	CG1	ILE N 120	117.450	-1.421	70.961	1.00104.29
ATOM	24367	CG2	ILE N 120	115.096	-1.315	70.101	1.00106.04
ATOM	24368	CD1	ILE N 120	117.261	-2.837	71.447	1.00101.60
ATOM	24369	N	LYS N 121	114.707	1.633	68.848	1.00104.16
ATOM	24370	CA	LYS N 121	113.445	2.282	68.498	1.00103.56
ATOM	24371	C	LYS N 121	112.383	1.222	68.188	1.00102.81
ATOM	24372	O	LYS N 121	112.589	0.367	67.321	1.00103.84
ATOM	24373	CB	LYS N 121	113.627	3.193	67.276	1.00103.03
ATOM	24374	CG	LYS N 121	114.347	4.507	67.561	1.00104.74
ATOM	24375	CD	LYS N 121	115.796	4.301	67.979	1.00105.03
ATOM	24376	CE	LYS N 121	116.460	5.621	68.355	1.00104.04
ATOM	24377	NZ	LYS N 121	116.440	6.612	67.246	1.00105.17
ATOM	24378	N	ALA N 122	111.257	1.276	68.899	1.00 99.47
ATOM	24379	CA	ALA N 122	110.169	0.326	68.692	1.00 95.99
ATOM	24380	C	ALA N 122	109.728	0.314	67.229	1.00 95.07
ATOM	24381	O	ALA N 122	109.361	1.355	66.683	1.00 94.87
ATOM	24382	CB	ALA N 122	108.998	0.686	69.577	1.00 93.76
ATOM	24383	N	GLY N 123	109.772	-0.860	66.598	1.00 94.18
ATOM	24384	CA	GLY N 123	109.366	-0.976	65.203	1.00 92.81
ATOM	24385	C	GLY N 123	110.504	-1.289	64.246	1.00 90.96
ATOM	24386	O	GLY N 123	110.292	-1.435	63.034	1.00 88.45
ATOM	24387	N	SER N 124	111.711	-1.384	64.801	1.00 89.66
ATOM	24388	CA	SER N 124	112.911	-1.680	64.027	1.00 88.69
ATOM	24389	C	SER N 124	113.344	-3.127	64.247	1.00 88.02
ATOM	24390	O	SER N 124	113.086	-3.717	65.304	1.00 88.48
ATOM	24391	CB	SER N 124	114.056	-0.738	64.421	1.00 88.49
ATOM	24392	OG	SER N 124	114.499	-0.980	65.746	1.00 90.71
ATOM	24393	N	LEU N 125	114.000	-3.690	63.237	1.00 86.00
ATOM	24394	CA	LEU N 125	114.478	-5.063	63.285	1.00 83.50
ATOM	24395	C	LEU N 125	115.712	-5.148	64.172	1.00 81.98
ATOM	24396	O	LEU N 125	116.789	-4.693	63.805	1.00 82.97
ATOM	24397	CB	LEU N 125	114.795	-5.542	61.864	1.00 82.99
ATOM	24398	CG	LEU N 125	115.201	-7.000	61.655	1.00 82.55
ATOM	24399	CD1	LEU N 125	114.281	-7.934	62.426	1.00 83.13
ATOM	24400	CD2	LEU N 125	115.148	-7.305	60.174	1.00 81.78
ATOM	24401	N	ILE N 126	115.538	-5.735	65.350	1.00 80.38
ATOM	24402	CA	ILE N 126	116.612	-5.886	66.327	1.00 78.82
ATOM	24403	C	ILE N 126	117.652	-6.929	65.920	1.00 78.30
ATOM	24404	O	ILE N 126	118.861	-6.717	66.071	1.00 78.63
ATOM	24405	CB	ILE N 126	116.021	-6.266	67.697	1.00 77.49
ATOM	24406	CG1	ILE N 126	114.947	-5.245	68.071	1.00 79.21
ATOM	24407	CG2	ILE N 126	117.107	-6.343	68.749	1.00 74.71
ATOM	24408	CD1	ILE N 126	115.344	-3.800	67.807	1.00 81.09
ATOM	24409	N	ALA N 127	117.177	-8.055	65.406	1.00 76.06
ATOM	24410	CA	ALA N 127	118.065	-9.123	64.985	1.00 73.00
ATOM	24411	C	ALA N 127	117.365	-10.049	64.005	1.00 71.52
ATOM	24412	O	ALA N 127	116.187	-9.883	63.694	1.00 70.91
ATOM	24413	CB	ALA N 127	118.549	-9.914	66.200	1.00 72.54
ATOM	24414	N	VAL N 128	118.115	-11.023	63.517	1.00 70.19
ATOM	24415	CA	VAL N 128	117.602	-11.999	62.576	1.00 68.72
ATOM	24416	C	VAL N 128	118.292	-13.322	62.888	1.00 69.69
ATOM	24417	O	VAL N 128	119.437	-13.547	62.484	1.00 70.97
ATOM	24418	CB	VAL N 128	117.888	-11.569	61.116	1.00 64.96
ATOM	24419	CG1	VAL N 128	117.631	-12.722	60.169	1.00 64.65
ATOM	24420	CG2	VAL N 128	117.004	-10.396	60.748	1.00 61.98
ATOM	24421	N	LEU N 129	117.593	-14.184	63.625	1.00 67.98
ATOM	24422	CA	LEU N 129	118.125	-15.480	64.008	1.00 66.48
ATOM	24423	C	LEU N 129	117.628	-16.561	63.070	1.00 66.56
ATOM	24424	O	LEU N 129	116.430	-16.821	63.013	1.00 66.54
ATOM	24425	CB	LEU N 129	117.703	-15.806	65.429	1.00 66.23
ATOM	24426	CG	LEU N 129	118.098	-14.719	66.426	1.00 68.93

ATOM	24427	CD1	LEU	N	129	117.543	-15.067	67.788	1.00	68.79
ATOM	24428	CD2	LEU	N	129	119.616	-14.573	66.471	1.00	67.72
ATOM	24429	N	ILE	N	130	118.552	-17.185	62.337	1.00	66.39
ATOM	24430	CA	ILE	N	130	118.212	-18.246	61.393	1.00	64.62
ATOM	24431	C	ILE	N	130	118.324	-19.627	62.037	1.00	66.70
ATOM	24432	O	ILE	N	130	119.353	-19.974	62.625	1.00	66.76
ATOM	24433	CB	ILE	N	130	119.119	-18.226	60.158	1.00	62.50
ATOM	24434	CG1	ILE	N	130	118.956	-16.914	59.384	1.00	64.83
ATOM	24435	CG2	ILE	N	130	118.764	-19.381	59.260	1.00	61.46
ATOM	24436	CD1	ILE	N	130	119.600	-15.703	60.042	1.00	65.72
ATOM	24437	N	LEU	N	131	117.251	-20.405	61.918	1.00	67.08
ATOM	24438	CA	LEU	N	131	117.182	-21.748	62.478	1.00	66.70
ATOM	24439	C	LEU	N	131	117.358	-22.739	61.340	1.00	68.22
ATOM	24440	O	LEU	N	131	116.876	-22.497	60.241	1.00	68.70
ATOM	24441	CB	LEU	N	131	115.820	-21.944	63.161	1.00	64.59
ATOM	24442	CG	LEU	N	131	115.422	-23.317	63.720	1.00	61.95
ATOM	24443	CD1	LEU	N	131	114.424	-23.160	64.850	1.00	54.34
ATOM	24444	CD2	LEU	N	131	114.838	-24.160	62.605	1.00	60.93
ATOM	24445	N	ARG	N	132	118.052	-23.846	61.592	1.00	70.69
ATOM	24446	CA	ARG	N	132	118.262	-24.852	60.549	1.00	73.30
ATOM	24447	C	ARG	N	132	117.899	-26.260	61.016	1.00	73.63
ATOM	24448	O	ARG	N	132	118.472	-26.763	61.983	1.00	73.48
ATOM	24449	CB	ARG	N	132	119.714	-24.837	60.081	1.00	74.57
ATOM	24450	CG	ARG	N	132	119.927	-25.575	58.772	1.00	77.37
ATOM	24451	CD	ARG	N	132	121.384	-25.530	58.347	1.00	81.16
ATOM	24452	NE	ARG	N	132	121.549	-25.773	56.917	1.00	83.47
ATOM	24453	CZ	ARG	N	132	122.715	-25.741	56.283	1.00	83.78
ATOM	24454	NH1	ARG	N	132	123.826	-25.478	56.955	1.00	84.60
ATOM	24455	NH2	ARG	N	132	122.766	-25.961	54.975	1.00	84.83
ATOM	24456	N	ASN	N	133	116.958	-26.897	60.319	1.00	73.78
ATOM	24457	CA	ASN	N	133	116.527	-28.240	60.690	1.00	73.99
ATOM	24458	C	ASN	N	133	116.930	-29.306	59.679	1.00	72.73
ATOM	24459	O	ASN	N	133	116.805	-29.121	58.464	1.00	72.93
ATOM	24460	CB	ASN	N	133	115.005	-28.274	60.917	1.00	76.03
ATOM	24461	CG	ASN	N	133	114.250	-28.916	59.774	1.00	78.11
ATOM	24462	OD1	ASN	N	133	114.331	-28.469	58.629	1.00	82.17
ATOM	24463	ND2	ASN	N	133	113.502	-29.970	60.080	1.00	77.96
ATOM	24464	N	THR	N	134	117.425	-30.419	60.210	1.00	70.68
ATOM	24465	CA	THR	N	134	117.863	-31.552	59.412	1.00	67.69
ATOM	24466	C	THR	N	134	117.735	-32.815	60.251	1.00	68.53
ATOM	24467	O	THR	N	134	118.448	-32.994	61.235	1.00	69.24
ATOM	24468	CB	THR	N	134	119.323	-31.400	58.978	1.00	64.53
ATOM	24469	OG1	THR	N	134	120.127	-31.136	60.131	1.00	62.98
ATOM	24470	CG2	THR	N	134	119.470	-30.272	57.976	1.00	59.08
ATOM	24471	N	ASN	N	135	116.822	-33.687	59.838	1.00	70.15
ATOM	24472	CA	ASN	N	135	116.534	-34.957	60.511	1.00	70.15
ATOM	24473	C	ASN	N	135	117.481	-36.080	60.087	1.00	69.41
ATOM	24474	O	ASN	N	135	118.226	-35.945	59.122	1.00	68.02
ATOM	24475	CB	ASN	N	135	115.099	-35.384	60.189	1.00	69.21
ATOM	24476	CG	ASN	N	135	114.903	-35.680	58.708	1.00	68.65
ATOM	24477	OD1	ASN	N	135	115.495	-36.613	58.170	1.00	68.16
ATOM	24478	ND2	ASN	N	135	114.085	-34.876	58.041	1.00	67.50
ATOM	24479	N	ASN	N	136	117.434	-37.190	60.817	1.00	71.23
ATOM	24480	CA	ASN	N	136	118.266	-38.343	60.501	1.00	74.18
ATOM	24481	C	ASN	N	136	117.438	-39.360	59.714	1.00	77.16
ATOM	24482	O	ASN	N	136	117.589	-40.570	59.885	1.00	78.50
ATOM	24483	CB	ASN	N	136	118.810	-39.000	61.777	1.00	72.09
ATOM	24484	CG	ASN	N	136	117.744	-39.749	62.560	1.00	72.88
ATOM	24485	OD1	ASN	N	136	118.062	-40.621	63.373	1.00	72.58
ATOM	24486	ND2	ASN	N	136	116.476	-39.410	62.330	1.00	73.99
ATOM	24487	N	TYR	N	137	116.555	-38.860	58.856	1.00	79.39
ATOM	24488	CA	TYR	N	137	115.715	-39.725	58.045	1.00	79.81

ATOM	24489	C	TYR	N	137	115.953	-39.490	56.560	1.00	79.16
ATOM	24490	O	TYR	N	137	115.882	-40.427	55.773	1.00	77.73
ATOM	24491	CB	TYR	N	137	114.239	-39.496	58.373	1.00	83.50
ATOM	24492	CG	TYR	N	137	113.300	-40.298	57.500	1.00	87.85
ATOM	24493	CD1	TYR	N	137	113.335	-41.691	57.506	1.00	90.44
ATOM	24494	CD2	TYR	N	137	112.390	-39.666	56.652	1.00	88.59
ATOM	24495	CE1	TYR	N	137	112.490	-42.439	56.689	1.00	91.61
ATOM	24496	CE2	TYR	N	137	111.539	-40.403	55.829	1.00	90.54
ATOM	24497	CZ	TYR	N	137	111.596	-41.791	55.852	1.00	92.03
ATOM	24498	OH	TYR	N	137	110.781	-42.535	55.025	1.00	92.77
ATOM	24499	N	ASN	N	138	116.231	-38.240	56.184	1.00	79.91
ATOM	24500	CA	ASN	N	138	116.487	-37.885	54.784	1.00	81.33
ATOM	24501	C	ASN	N	138	117.300	-36.596	54.624	1.00	81.61
ATOM	24502	O	ASN	N	138	117.737	-36.005	55.610	1.00	83.32
ATOM	24503	CB	ASN	N	138	115.170	-37.757	54.015	1.00	81.32
ATOM	24504	CG	ASN	N	138	114.258	-36.692	54.583	1.00	82.36
ATOM	24505	OD1	ASN	N	138	113.137	-36.520	54.113	1.00	85.35
ATOM	24506	ND2	ASN	N	138	114.730	-35.970	55.594	1.00	82.02
ATOM	24507	N	SER	N	139	117.497	-36.162	53.382	1.00	81.21
ATOM	24508	CA	SER	N	139	118.273	-34.953	53.111	1.00	82.37
ATOM	24509	C	SER	N	139	117.452	-33.668	53.216	1.00	82.24
ATOM	24510	O	SER	N	139	117.631	-32.735	52.428	1.00	81.49
ATOM	24511	CB	SER	N	139	118.928	-35.036	51.722	1.00	83.70
ATOM	24512	OG	SER	N	139	117.958	-35.041	50.688	1.00	84.69
ATOM	24513	N	ASP	N	140	116.553	-33.621	54.191	1.00	82.28
ATOM	24514	CA	ASP	N	140	115.734	-32.437	54.395	1.00	82.68
ATOM	24515	C	ASP	N	140	116.500	-31.379	55.186	1.00	82.19
ATOM	24516	O	ASP	N	140	116.806	-31.563	56.364	1.00	82.09
ATOM	24517	CB	ASP	N	140	114.439	-32.789	55.132	1.00	84.39
ATOM	24518	CG	ASP	N	140	113.256	-32.933	54.196	1.00	86.32
ATOM	24519	OD1	ASP	N	140	113.474	-33.021	52.970	1.00	86.58
ATOM	24520	OD2	ASP	N	140	112.107	-32.962	54.687	1.00	88.07
ATOM	24521	N	ASP	N	141	116.812	-30.275	54.519	1.00	81.77
ATOM	24522	CA	ASP	N	141	117.523	-29.163	55.130	1.00	80.99
ATOM	24523	C	ASP	N	141	116.645	-27.940	54.929	1.00	80.82
ATOM	24524	O	ASP	N	141	116.524	-27.436	53.815	1.00	80.17
ATOM	24525	CB	ASP	N	141	118.873	-28.955	54.437	1.00	81.04
ATOM	24526	CG	ASP	N	141	119.665	-27.794	55.020	1.00	81.85
ATOM	24527	OD1	ASP	N	141	119.118	-26.672	55.112	1.00	82.20
ATOM	24528	OD2	ASP	N	141	120.845	-28.000	55.375	1.00	81.56
ATOM	24529	N	PHE	N	142	116.022	-27.472	56.003	1.00	80.73
ATOM	24530	CA	PHE	N	142	115.150	-26.311	55.911	1.00	82.43
ATOM	24531	C	PHE	N	142	115.699	-25.134	56.709	1.00	83.98
ATOM	24532	O	PHE	N	142	116.649	-25.290	57.478	1.00	85.69
ATOM	24533	CB	PHE	N	142	113.745	-26.694	56.390	1.00	81.30
ATOM	24534	CG	PHE	N	142	113.023	-27.634	55.456	1.00	81.02
ATOM	24535	CD1	PHE	N	142	113.276	-27.603	54.081	1.00	80.08
ATOM	24536	CD2	PHE	N	142	112.094	-28.550	55.943	1.00	80.71
ATOM	24537	CE1	PHE	N	142	112.618	-28.467	53.209	1.00	78.56
ATOM	24538	CE2	PHE	N	142	111.428	-29.423	55.073	1.00	80.91
ATOM	24539	CZ	PHE	N	142	111.693	-29.379	53.704	1.00	79.57
ATOM	24540	N	GLN	N	143	115.120	-23.952	56.513	1.00	84.39
ATOM	24541	CA	GLN	N	143	115.576	-22.775	57.237	1.00	84.89
ATOM	24542	C	GLN	N	143	114.480	-21.867	57.767	1.00	83.72
ATOM	24543	O	GLN	N	143	114.159	-20.846	57.159	1.00	83.38
ATOM	24544	CB	GLN	N	143	116.528	-21.944	56.379	1.00	87.34
ATOM	24545	CG	GLN	N	143	117.911	-22.539	56.235	1.00	92.09
ATOM	24546	CD	GLN	N	143	118.963	-21.480	55.945	1.00	95.79
ATOM	24547	OE1	GLN	N	143	118.797	-20.652	55.045	1.00	94.49
ATOM	24548	NE2	GLN	N	143	120.056	-21.504	56.710	1.00	98.16
ATOM	24549	N	PHE	N	144	113.914	-22.241	58.910	1.00	82.16
ATOM	24550	CA	PHE	N	144	112.881	-21.437	59.546	1.00	81.05

ATOM	24551	C	PHE N 144	113.562	-20.138	59.979	1.00	79.95
ATOM	24552	O	PHE N 144	114.535	-20.175	60.734	1.00	81.30
ATOM	24553	CB	PHE N 144	112.333	-22.153	60.787	1.00	81.30
ATOM	24554	CG	PHE N 144	111.723	-23.504	60.503	1.00	81.96
ATOM	24555	CD1	PHE N 144	112.481	-24.526	59.940	1.00	81.93
ATOM	24556	CD2	PHE N 144	110.394	-23.762	60.831	1.00	80.22
ATOM	24557	CE1	PHE N 144	111.925	-25.780	59.709	1.00	80.36
ATOM	24558	CE2	PHE N 144	109.833	-25.008	60.603	1.00	78.44
ATOM	24559	CZ	PHE N 144	110.598	-26.019	60.043	1.00	79.20
ATOM	24560	N	VAL N 145	113.064	-18.998	59.507	1.00	77.24
ATOM	24561	CA	VAL N 145	113.659	-17.716	59.872	1.00	73.93
ATOM	24562	C	VAL N 145	112.830	-16.958	60.906	1.00	73.55
ATOM	24563	O	VAL N 145	111.634	-17.209	61.066	1.00	72.29
ATOM	24564	CB	VAL N 145	113.843	-16.814	58.641	1.00	71.37
ATOM	24565	CG1	VAL N 145	114.591	-15.559	59.033	1.00	69.69
ATOM	24566	CG2	VAL N 145	114.592	-17.564	57.559	1.00	70.13
ATOM	24567	N	TRP N 146	113.486	-16.041	61.612	1.00	73.42
ATOM	24568	CA	TRP N 146	112.842	-15.219	62.633	1.00	73.95
ATOM	24569	C	TRP N 146	113.430	-13.805	62.588	1.00	74.37
ATOM	24570	O	TRP N 146	114.647	-13.634	62.509	1.00	76.00
ATOM	24571	CB	TRP N 146	113.068	-15.802	64.035	1.00	73.65
ATOM	24572	CG	TRP N 146	112.810	-17.284	64.170	1.00	76.01
ATOM	24573	CD1	TRP N 146	113.736	-18.289	64.116	1.00	74.56
ATOM	24574	CD2	TRP N 146	111.543	-17.922	64.391	1.00	76.90
ATOM	24575	NE1	TRP N 146	113.127	-19.506	64.290	1.00	73.43
ATOM	24576	CE2	TRP N 146	111.782	-19.311	64.460	1.00	75.43
ATOM	24577	CE3	TRP N 146	110.229	-17.453	64.536	1.00	77.97
ATOM	24578	CZ2	TRP N 146	110.755	-20.237	64.669	1.00	75.97
ATOM	24579	CZ3	TRP N 146	109.209	-18.376	64.745	1.00	77.22
ATOM	24580	CH2	TRP N 146	109.480	-19.752	64.808	1.00	76.48
ATOM	24581	N	ASN N 147	112.564	-12.797	62.641	1.00	73.83
ATOM	24582	CA	ASN N 147	112.999	-11.402	62.616	1.00	72.24
ATOM	24583	C	ASN N 147	112.630	-10.735	63.934	1.00	71.96
ATOM	24584	O	ASN N 147	111.479	-10.375	64.157	1.00	72.51
ATOM	24585	CB	ASN N 147	112.332	-10.658	61.458	1.00	70.71
ATOM	24586	CG	ASN N 147	112.524	-11.361	60.130	1.00	70.47
ATOM	24587	OD1	ASN N 147	113.648	-11.612	59.703	1.00	67.91
ATOM	24588	ND2	ASN N 147	111.422	-11.685	59.470	1.00	72.21
ATOM	24589	N	ILE N 148	113.613	-10.567	64.806	1.00	72.50
ATOM	24590	CA	ILE N 148	113.376	-9.956	66.104	1.00	73.95
ATOM	24591	C	ILE N 148	113.193	-8.439	66.057	1.00	75.91
ATOM	24592	O	ILE N 148	114.142	-7.701	65.796	1.00	75.84
ATOM	24593	CB	ILE N 148	114.521	-10.293	67.078	1.00	71.82
ATOM	24594	CG1	ILE N 148	114.423	-11.758	67.516	1.00	71.46
ATOM	24595	CG2	ILE N 148	114.453	-9.385	68.296	1.00	71.89
ATOM	24596	CD1	ILE N 148	114.378	-12.755	66.385	1.00	71.48
ATOM	24597	N	TYR N 149	111.964	-7.986	66.314	1.00	78.35
ATOM	24598	CA	TYR N 149	111.636	-6.560	66.326	1.00	79.62
ATOM	24599	C	TYR N 149	111.405	-6.073	67.745	1.00	81.88
ATOM	24600	O	TYR N 149	111.147	-6.868	68.650	1.00	80.49
ATOM	24601	CB	TYR N 149	110.376	-6.271	65.515	1.00	76.34
ATOM	24602	CG	TYR N 149	110.570	-6.282	64.023	1.00	74.87
ATOM	24603	CD1	TYR N 149	110.950	-5.125	63.348	1.00	74.90
ATOM	24604	CD2	TYR N 149	110.336	-7.431	63.277	1.00	75.02
ATOM	24605	CE1	TYR N 149	111.086	-5.108	61.964	1.00	74.44
ATOM	24606	CE2	TYR N 149	110.467	-7.425	61.893	1.00	75.43
ATOM	24607	CZ	TYR N 149	110.839	-6.260	61.242	1.00	75.09
ATOM	24608	OH	TYR N 149	110.937	-6.242	59.867	1.00	76.55
ATOM	24609	N	ALA N 150	111.486	-4.758	67.926	1.00	86.25
ATOM	24610	CA	ALA N 150	111.289	-4.150	69.241	1.00	90.89
ATOM	24611	C	ALA N 150	109.977	-3.373	69.326	1.00	92.66
ATOM	24612	O	ALA N 150	109.755	-2.429	68.570	1.00	92.51

ATOM	24613	CB	ALA N 150	112.461	-3.226	69.569	1.00	90.96
ATOM	24614	N	ASN N 151	109.109	-3.780	70.249	1.00	95.46
ATOM	24615	CA	ASN N 151	107.828	-3.110	70.432	1.00	97.48
ATOM	24616	C	ASN N 151	108.015	-1.830	71.230	1.00	97.70
ATOM	24617	O	ASN N 151	107.276	-0.862	71.048	1.00	97.84
ATOM	24618	CB	ASN N 151	106.839	-4.028	71.154	1.00	97.88
ATOM	24619	CG	ASN N 151	106.262	-5.091	70.242	1.00	98.97
ATOM	24620	OD1	ASN N 151	105.518	-4.790	69.302	1.00	99.87
ATOM	24621	ND2	ASN N 151	106.607	-6.341	70.508	1.00	98.14
ATOM	24622	N	ASN N 152	109.016	-1.833	72.105	1.00	97.71
ATOM	24623	CA	ASN N 152	109.301	-0.677	72.936	1.00	97.90
ATOM	24624	C	ASN N 152	110.593	0.013	72.522	1.00	99.24
ATOM	24625	O	ASN N 152	111.055	-0.122	71.387	1.00	99.18
ATOM	24626	CB	ASN N 152	109.402	-1.096	74.399	1.00	96.73
ATOM	24627	CG	ASN N 152	110.576	-2.009	74.658	1.00	96.50
ATOM	24628	OD1	ASN N 152	110.669	-3.088	74.079	1.00	96.90
ATOM	24629	ND2	ASN N 152	111.483	-1.579	75.529	1.00	96.50
ATOM	24630	N	ASP N 153	111.165	0.755	73.465	1.00	99.89
ATOM	24631	CA	ASP N 153	112.400	1.492	73.246	1.00	99.88
ATOM	24632	C	ASP N 153	113.278	1.425	74.487	1.00	100.60
ATOM	24633	O	ASP N 153	112.987	2.065	75.499	1.00	100.20
ATOM	24634	CB	ASP N 153	112.092	2.962	72.919	1.00	98.17
ATOM	24635	CG	ASP N 153	111.609	3.157	71.494	1.00	97.19
ATOM	24636	OD1	ASP N 153	110.699	2.414	71.069	1.00	96.65
ATOM	24637	OD2	ASP N 153	112.133	4.058	70.799	1.00	94.41
ATOM	24638	N	VAL N 154	114.349	0.642	74.411	1.00	101.98
ATOM	24639	CA	VAL N 154	115.270	0.526	75.535	1.00	102.86
ATOM	24640	C	VAL N 154	115.962	1.874	75.722	1.00	103.38
ATOM	24641	O	VAL N 154	116.098	2.658	74.778	1.00	102.31
ATOM	24642	CB	VAL N 154	116.354	-0.566	75.292	1.00	102.71
ATOM	24643	CG1	VAL N 154	117.309	-0.643	76.493	1.00	100.11
ATOM	24644	CG2	VAL N 154	115.691	-1.916	75.057	1.00	101.63
ATOM	24645	N	VAL N 155	116.389	2.145	76.948	1.00	104.28
ATOM	24646	CA	VAL N 155	117.065	3.392	77.248	1.00	103.99
ATOM	24647	C	VAL N 155	118.393	3.117	77.933	1.00	104.58
ATOM	24648	O	VAL N 155	118.501	2.233	78.785	1.00	103.40
ATOM	24649	CB	VAL N 155	116.199	4.294	78.148	1.00	103.40
ATOM	24650	CG1	VAL N 155	116.949	5.571	78.473	1.00	101.57
ATOM	24651	CG2	VAL N 155	114.886	4.607	77.449	1.00	100.96
ATOM	24652	N	VAL N 156	119.407	3.872	77.528	1.00	105.93
ATOM	24653	CA	VAL N 156	120.742	3.740	78.087	1.00	107.38
ATOM	24654	C	VAL N 156	120.997	4.975	78.941	1.00	107.87
ATOM	24655	O	VAL N 156	121.600	5.947	78.485	1.00	107.80
ATOM	24656	CB	VAL N 156	121.816	3.658	76.976	1.00	108.03
ATOM	24657	CG1	VAL N 156	123.182	3.381	77.594	1.00	106.65
ATOM	24658	CG2	VAL N 156	121.446	2.571	75.965	1.00	107.99
ATOM	24659	N	PRO N 157	120.518	4.955	80.193	1.00	108.67
ATOM	24660	CA	PRO N 157	120.682	6.067	81.128	1.00	108.98
ATOM	24661	C	PRO N 157	122.017	6.786	81.023	1.00	109.34
ATOM	24662	O	PRO N 157	123.058	6.244	81.393	1.00	108.37
ATOM	24663	CB	PRO N 157	120.480	5.396	82.477	1.00	108.22
ATOM	24664	CG	PRO N 157	119.374	4.449	82.171	1.00	108.48
ATOM	24665	CD	PRO N 157	119.798	3.843	80.840	1.00	108.71
ATOM	24666	N	THR N 158	121.969	8.008	80.497	1.00	110.65
ATOM	24667	CA	THR N 158	123.156	8.835	80.356	1.00	111.89
ATOM	24668	C	THR N 158	123.717	9.046	81.759	1.00	113.96
ATOM	24669	O	THR N 158	123.076	9.657	82.618	1.00	114.64
ATOM	24670	CB	THR N 158	122.813	10.197	79.708	1.00	110.53
ATOM	24671	OG1	THR N 158	123.973	11.034	79.710	1.00	109.05
ATOM	24672	CG2	THR N 158	121.694	10.889	80.467	1.00	110.94
ATOM	24673	N	GLY N 159	124.912	8.514	81.988	1.00	116.24
ATOM	24674	CA	GLY N 159	125.540	8.619	83.291	1.00	118.97

ATOM	24675	C	GLY N 159	126.382	9.857	83.518	1.00121.03
ATOM	24676	O	GLY N 159	126.499	10.720	82.646	1.00119.65
ATOM	24677	N	GLY N 160	126.980	9.923	84.705	1.00123.47
ATOM	24678	CA	GLY N 160	127.807	11.055	85.077	1.00126.89
ATOM	24679	C	GLY N 160	129.034	11.293	84.218	1.00128.72
ATOM	24680	O	GLY N 160	129.629	10.357	83.682	1.00128.90
ATOM	24681	N	CYS N 161	129.408	12.562	84.090	1.00130.65
ATOM	24682	CA	CYS N 161	130.573	12.950	83.310	1.00131.87
ATOM	24683	C	CYS N 161	131.805	12.698	84.156	1.00132.67
ATOM	24684	O	CYS N 161	131.933	13.229	85.263	1.00132.41
ATOM	24685	CB	CYS N 161	130.487	14.426	82.935	1.00131.98
ATOM	24686	SG	CYS N 161	128.979	14.807	81.995	1.00133.50
ATOM	24687	N	ASP N 162	132.705	11.874	83.634	1.00133.71
ATOM	24688	CA	ASP N 162	133.921	11.537	84.349	1.00134.98
ATOM	24689	C	ASP N 162	134.756	12.777	84.603	1.00135.75
ATOM	24690	O	ASP N 162	135.451	13.274	83.712	1.00134.99
ATOM	24691	CB	ASP N 162	134.730	10.500	83.564	1.00135.52
ATOM	24692	CG	ASP N 162	135.965	10.022	84.317	1.00135.98
ATOM	24693	OD1	ASP N 162	135.841	9.672	85.510	1.00135.64
ATOM	24694	OD2	ASP N 162	137.059	9.982	83.714	1.00135.48
ATOM	24695	N	VAL N 163	134.657	13.283	85.828	1.00137.00
ATOM	24696	CA	VAL N 163	135.409	14.457	86.246	1.00137.91
ATOM	24697	C	VAL N 163	136.733	13.933	86.783	1.00137.86
ATOM	24698	O	VAL N 163	136.900	13.746	87.990	1.00137.80
ATOM	24699	CB	VAL N 163	134.665	15.233	87.359	1.00138.19
ATOM	24700	CG1	VAL N 163	135.487	16.440	87.796	1.00137.94
ATOM	24701	CG2	VAL N 163	133.292	15.673	86.856	1.00138.03
ATOM	24702	N	SER N 164	137.664	13.684	85.869	1.00137.91
ATOM	24703	CA	SER N 164	138.969	13.157	86.233	1.00138.05
ATOM	24704	C	SER N 164	139.935	14.203	86.768	1.00138.46
ATOM	24705	O	SER N 164	140.280	15.165	86.081	1.00138.25
ATOM	24706	CB	SER N 164	139.601	12.447	85.035	1.00137.70
ATOM	24707	OG	SER N 164	138.915	11.244	84.740	1.00136.64
ATOM	24708	N	ALA N 165	140.363	13.997	88.009	1.00138.64
ATOM	24709	CA	ALA N 165	141.311	14.880	88.668	1.00139.22
ATOM	24710	C	ALA N 165	142.618	14.098	88.760	1.00140.01
ATOM	24711	O	ALA N 165	142.686	12.951	88.314	1.00140.24
ATOM	24712	CB	ALA N 165	140.811	15.242	90.059	1.00138.43
ATOM	24713	N	ARG N 166	143.652	14.705	89.332	1.00140.74
ATOM	24714	CA	ARG N 166	144.934	14.019	89.461	1.00140.95
ATOM	24715	C	ARG N 166	145.177	13.504	90.885	1.00142.06
ATOM	24716	O	ARG N 166	145.247	12.291	91.108	1.00141.97
ATOM	24717	CB	ARG N 166	146.079	14.943	89.026	1.00138.72
ATOM	24718	CG	ARG N 166	145.867	15.581	87.664	1.00135.50
ATOM	24719	CD	ARG N 166	145.463	14.565	86.606	1.00133.85
ATOM	24720	NE	ARG N 166	145.094	15.195	85.339	1.00131.73
ATOM	24721	CZ	ARG N 166	145.938	15.857	84.554	1.00129.89
ATOM	24722	NH1	ARG N 166	147.211	15.980	84.901	1.00129.21
ATOM	24723	NH2	ARG N 166	145.511	16.396	83.421	1.00128.17
ATOM	24724	N	ASP N 167	145.295	14.419	91.845	1.00142.72
ATOM	24725	CA	ASP N 167	145.536	14.026	93.229	1.00143.93
ATOM	24726	C	ASP N 167	145.355	15.178	94.215	1.00144.76
ATOM	24727	O	ASP N 167	144.273	15.377	94.768	1.00143.99
ATOM	24728	CB	ASP N 167	146.952	13.455	93.365	1.00144.82
ATOM	24729	CG	ASP N 167	147.261	12.973	94.774	1.00145.92
ATOM	24730	OD1	ASP N 167	146.359	13.016	95.637	1.00145.96
ATOM	24731	OD2	ASP N 167	148.412	12.546	95.016	1.00147.09
ATOM	24732	N	VAL N 168	146.430	15.927	94.437	1.00146.22
ATOM	24733	CA	VAL N 168	146.412	17.051	95.364	1.00147.63
ATOM	24734	C	VAL N 168	147.477	18.083	94.989	1.00148.76
ATOM	24735	O	VAL N 168	148.656	17.910	95.293	1.00149.10
ATOM	24736	CB	VAL N 168	146.647	16.558	96.814	1.00147.67

ATOM	24737	CG1	VAL	N	168	147.869	15.654	96.869	1.00148.21
ATOM	24738	CG2	VAL	N	168	146.829	17.734	97.745	1.00147.40
ATOM	24739	N	THR	N	169	147.052	19.152	94.319	1.00150.51
ATOM	24740	CA	THR	N	169	147.966	20.210	93.896	1.00152.51
ATOM	24741	C	THR	N	169	148.847	20.647	95.059	1.00153.22
ATOM	24742	O	THR	N	169	148.386	21.313	95.987	1.00153.12
ATOM	24743	CB	THR	N	169	147.194	21.440	93.354	1.00153.29
ATOM	24744	OG1	THR	N	169	146.524	21.087	92.135	1.00154.23
ATOM	24745	CG2	THR	N	169	148.149	22.597	93.081	1.00153.70
ATOM	24746	N	VAL	N	170	150.120	20.270	94.993	1.00153.93
ATOM	24747	CA	VAL	N	170	151.086	20.594	96.036	1.00154.45
ATOM	24748	C	VAL	N	170	151.808	21.919	95.779	1.00155.15
ATOM	24749	O	VAL	N	170	152.999	21.933	95.468	1.00155.60
ATOM	24750	CB	VAL	N	170	152.139	19.471	96.160	1.00153.99
ATOM	24751	CG1	VAL	N	170	153.020	19.711	97.363	1.00153.70
ATOM	24752	CG2	VAL	N	170	151.450	18.130	96.266	1.00153.45
ATOM	24753	N	THR	N	171	151.089	23.030	95.913	1.00155.54
ATOM	24754	CA	THR	N	171	151.679	24.347	95.694	1.00156.22
ATOM	24755	C	THR	N	171	152.621	24.744	96.834	1.00157.11
ATOM	24756	O	THR	N	171	152.380	25.721	97.544	1.00157.17
ATOM	24757	CB	THR	N	171	150.580	25.425	95.523	1.00155.76
ATOM	24758	OG1	THR	N	171	151.178	26.728	95.522	1.00155.44
ATOM	24759	CG2	THR	N	171	149.556	25.327	96.640	1.00155.66
ATOM	24760	N	LEU	N	172	153.703	23.982	96.986	1.00158.25
ATOM	24761	CA	LEU	N	172	154.707	24.221	98.026	1.00159.82
ATOM	24762	C	LEU	N	172	155.436	25.566	97.903	1.00160.95
ATOM	24763	O	LEU	N	172	155.874	26.129	98.914	1.00160.83
ATOM	24764	CB	LEU	N	172	155.735	23.069	98.042	1.00159.46
ATOM	24765	CG	LEU	N	172	156.868	23.020	99.087	1.00158.21
ATOM	24766	CD1	LEU	N	172	157.463	21.620	99.124	1.00156.42
ATOM	24767	CD2	LEU	N	172	157.953	24.041	98.763	1.00156.97
ATOM	24768	N	PRO	N	173	155.583	26.102	96.672	1.00161.68
ATOM	24769	CA	PRO	N	173	156.281	27.387	96.566	1.00162.22
ATOM	24770	C	PRO	N	173	155.787	28.414	97.583	1.00162.44
ATOM	24771	O	PRO	N	173	154.617	28.410	97.970	1.00162.76
ATOM	24772	CB	PRO	N	173	156.019	27.811	95.116	1.00162.10
ATOM	24773	CG	PRO	N	173	154.752	27.077	94.754	1.00161.48
ATOM	24774	CD	PRO	N	173	155.002	25.730	95.370	1.00161.32
ATOM	24775	N	ASP	N	174	156.694	29.282	98.018	1.00162.36
ATOM	24776	CA	ASP	N	174	156.368	30.308	98.997	1.00162.25
ATOM	24777	C	ASP	N	174	155.125	31.103	98.618	1.00162.10
ATOM	24778	O	ASP	N	174	154.414	30.764	97.671	1.00161.89
ATOM	24779	CB	ASP	N	174	157.558	31.252	99.178	1.00162.78
ATOM	24780	CG	ASP	N	174	158.764	30.557	99.786	1.00163.48
ATOM	24781	OD1	ASP	N	174	159.206	29.528	99.229	1.00163.98
ATOM	24782	OD2	ASP	N	174	159.272	31.040	100.821	1.00163.75
ATOM	24783	N	TYR	N	175	154.876	32.168	99.369	1.00161.98
ATOM	24784	CA	TYR	N	175	153.718	33.030	99.154	1.00161.94
ATOM	24785	C	TYR	N	175	153.392	33.371	97.687	1.00161.58
ATOM	24786	O	TYR	N	175	152.231	33.296	97.275	1.00161.90
ATOM	24787	CB	TYR	N	175	153.885	34.319	99.974	1.00161.76
ATOM	24788	CG	TYR	N	175	152.701	35.262	99.908	1.00161.81
ATOM	24789	CD1	TYR	N	175	151.408	34.814	100.186	1.00161.57
ATOM	24790	CD2	TYR	N	175	152.873	36.603	99.564	1.00161.58
ATOM	24791	CE1	TYR	N	175	150.315	35.678	100.118	1.00160.63
ATOM	24792	CE2	TYR	N	175	151.789	37.475	99.497	1.00160.70
ATOM	24793	CZ	TYR	N	175	150.516	37.005	99.773	1.00160.11
ATOM	24794	OH	TYR	N	175	149.449	37.865	99.696	1.00159.69
ATOM	24795	N	PRO	N	176	154.403	33.743	96.879	1.00160.52
ATOM	24796	CA	PRO	N	176	154.130	34.080	95.476	1.00159.57
ATOM	24797	C	PRO	N	176	153.785	32.887	94.584	1.00159.35
ATOM	24798	O	PRO	N	176	153.297	33.065	93.468	1.00159.44

ATOM	24799	CB	PRO	N	176	155.417	34.767	95.040	1.00158.94
ATOM	24800	CG	PRO	N	176	156.452	34.006	95.801	1.00158.82
ATOM	24801	CD	PRO	N	176	155.836	33.914	97.183	1.00159.67
ATOM	24802	N	GLY	N	177	154.034	31.678	95.085	1.00158.85
ATOM	24803	CA	GLY	N	177	153.766	30.472	94.318	1.00158.21
ATOM	24804	C	GLY	N	177	152.320	30.193	93.937	1.00157.99
ATOM	24805	O	GLY	N	177	151.478	29.946	94.801	1.00157.22
ATOM	24806	N	SER	N	178	152.042	30.224	92.632	1.00157.95
ATOM	24807	CA	SER	N	178	150.704	29.963	92.093	1.00157.14
ATOM	24808	C	SER	N	178	150.790	29.107	90.819	1.00155.94
ATOM	24809	O	SER	N	178	151.092	29.608	89.733	1.00155.25
ATOM	24810	CB	SER	N	178	149.977	31.285	91.789	1.00157.49
ATOM	24811	OG	SER	N	178	150.630	32.025	90.770	1.00158.19
ATOM	24812	N	VAL	N	179	150.519	27.812	90.968	1.00154.63
ATOM	24813	CA	VAL	N	179	150.571	26.866	89.854	1.00152.70
ATOM	24814	C	VAL	N	179	149.177	26.487	89.355	1.00151.06
ATOM	24815	O	VAL	N	179	148.214	26.498	90.121	1.00151.44
ATOM	24816	CB	VAL	N	179	151.298	25.556	90.265	1.00152.85
ATOM	24817	CG1	VAL	N	179	152.737	25.854	90.663	1.00152.91
ATOM	24818	CG2	VAL	N	179	150.556	24.887	91.418	1.00151.40
ATOM	24819	N	PRO	N	180	149.052	26.153	88.058	1.00149.00
ATOM	24820	CA	PRO	N	180	147.753	25.768	87.497	1.00147.34
ATOM	24821	C	PRO	N	180	147.321	24.389	88.007	1.00145.91
ATOM	24822	O	PRO	N	180	148.125	23.458	88.072	1.00144.89
ATOM	24823	CB	PRO	N	180	148.008	25.797	85.990	1.00147.29
ATOM	24824	CG	PRO	N	180	149.451	25.430	85.891	1.00147.51
ATOM	24825	CD	PRO	N	180	150.070	26.248	86.998	1.00148.23
ATOM	24826	N	ILE	N	181	146.046	24.271	88.369	1.00144.81
ATOM	24827	CA	ILE	N	181	145.499	23.025	88.901	1.00143.61
ATOM	24828	C	ILE	N	181	144.983	22.071	87.827	1.00143.07
ATOM	24829	O	ILE	N	181	144.243	22.473	86.927	1.00143.99
ATOM	24830	CB	ILE	N	181	144.343	23.304	89.881	1.00142.97
ATOM	24831	CG1	ILE	N	181	144.799	24.294	90.956	1.00142.66
ATOM	24832	CG2	ILE	N	181	143.883	22.001	90.522	1.00143.13
ATOM	24833	CD1	ILE	N	181	143.688	24.778	91.858	1.00142.72
ATOM	24834	N	PRO	N	182	145.371	20.788	87.916	1.00141.87
ATOM	24835	CA	PRO	N	182	144.968	19.737	86.971	1.00140.88
ATOM	24836	C	PRO	N	182	143.499	19.321	87.122	1.00140.17
ATOM	24837	O	PRO	N	182	143.094	18.851	88.185	1.00139.76
ATOM	24838	CB	PRO	N	182	145.920	18.592	87.310	1.00140.70
ATOM	24839	CG	PRO	N	182	147.111	19.280	87.908	1.00140.62
ATOM	24840	CD	PRO	N	182	146.462	20.310	88.781	1.00140.78
ATOM	24841	N	LEU	N	183	142.715	19.482	86.054	1.00139.27
ATOM	24842	CA	LEU	N	183	141.294	19.127	86.079	1.00138.25
ATOM	24843	C	LEU	N	183	140.611	19.143	84.708	1.00137.69
ATOM	24844	O	LEU	N	183	140.703	20.123	83.976	1.00137.04
ATOM	24845	CB	LEU	N	183	140.543	20.069	87.025	1.00137.89
ATOM	24846	CG	LEU	N	183	140.500	19.688	88.507	1.00137.33
ATOM	24847	CD1	LEU	N	183	140.544	20.934	89.372	1.00136.81
ATOM	24848	CD2	LEU	N	183	139.247	18.872	88.779	1.00137.74
ATOM	24849	N	THR	N	184	139.922	18.048	84.381	1.00137.55
ATOM	24850	CA	THR	N	184	139.194	17.901	83.116	1.00136.75
ATOM	24851	C	THR	N	184	137.938	17.054	83.339	1.00136.47
ATOM	24852	O	THR	N	184	137.885	16.246	84.269	1.00136.27
ATOM	24853	CB	THR	N	184	140.050	17.202	82.030	1.00136.58
ATOM	24854	OG1	THR	N	184	140.443	15.901	82.488	1.00135.65
ATOM	24855	CG2	THR	N	184	141.285	18.021	81.712	1.00136.07
ATOM	24856	N	VAL	N	185	136.931	17.234	82.488	1.00135.53
ATOM	24857	CA	VAL	N	185	135.691	16.469	82.617	1.00135.24
ATOM	24858	C	VAL	N	185	135.114	16.082	81.257	1.00134.72
ATOM	24859	O	VAL	N	185	135.293	16.799	80.272	1.00134.21
ATOM	24860	CB	VAL	N	185	134.614	17.263	83.393	1.00135.53

ATOM	24861	CG1	VAL	N	185	135.134	17.642	84.768	1.00135.18
ATOM	24862	CG2	VAL	N	185	134.221	18.503	82.615	1.00136.33
ATOM	24863	N	TYR	N	186	134.416	14.948	81.213	1.00134.05
ATOM	24864	CA	TYR	N	186	133.814	14.462	79.975	1.00133.26
ATOM	24865	C	TYR	N	186	132.710	13.433	80.216	1.00131.84
ATOM	24866	O	TYR	N	186	132.652	12.813	81.276	1.00130.42
ATOM	24867	CB	TYR	N	186	134.900	13.872	79.069	1.00135.61
ATOM	24868	CG	TYR	N	186	135.944	13.070	79.811	1.00137.78
ATOM	24869	CD1	TYR	N	186	135.627	11.846	80.395	1.00138.60
ATOM	24870	CD2	TYR	N	186	137.246	13.551	79.954	1.00138.83
ATOM	24871	CE1	TYR	N	186	136.580	11.119	81.102	1.00139.26
ATOM	24872	CE2	TYR	N	186	138.207	12.834	80.664	1.00139.82
ATOM	24873	CZ	TYR	N	186	137.867	11.616	81.236	1.00140.16
ATOM	24874	OH	TYR	N	186	138.808	10.898	81.944	1.00140.32
ATOM	24875	N	CYS	N	187	131.839	13.265	79.219	1.00131.17
ATOM	24876	CA	CYS	N	187	130.716	12.326	79.296	1.00130.07
ATOM	24877	C	CYS	N	187	130.556	11.513	78.010	1.00128.13
ATOM	24878	O	CYS	N	187	130.798	12.017	76.910	1.00127.25
ATOM	24879	CB	CYS	N	187	129.404	13.079	79.543	1.00131.54
ATOM	24880	SG	CYS	N	187	129.597	14.813	80.062	1.00132.35
ATOM	24881	N	ALA	N	188	130.132	10.260	78.157	1.00125.71
ATOM	24882	CA	ALA	N	188	129.914	9.393	77.007	1.00123.65
ATOM	24883	C	ALA	N	188	129.033	10.174	76.043	1.00122.26
ATOM	24884	O	ALA	N	188	129.259	10.187	74.831	1.00120.60
ATOM	24885	CB	ALA	N	188	129.214	8.115	77.445	1.00124.17
ATOM	24886	N	LYS	N	189	128.026	10.829	76.613	1.00121.53
ATOM	24887	CA	LYS	N	189	127.092	11.649	75.857	1.00120.68
ATOM	24888	C	LYS	N	189	127.206	13.094	76.327	1.00119.77
ATOM	24889	O	LYS	N	189	127.022	13.399	77.509	1.00118.50
ATOM	24890	CB	LYS	N	189	125.656	11.150	76.050	1.00120.41
ATOM	24891	CG	LYS	N	189	125.349	9.843	75.332	1.00119.28
ATOM	24892	CD	LYS	N	189	125.346	10.014	73.815	1.00118.44
ATOM	24893	CE	LYS	N	189	124.207	10.915	73.357	1.00117.73
ATOM	24894	NZ	LYS	N	189	124.153	11.052	71.876	1.00116.76
ATOM	24895	N	SER	N	190	127.522	13.976	75.387	1.00119.04
ATOM	24896	CA	SER	N	190	127.673	15.391	75.674	1.00118.47
ATOM	24897	C	SER	N	190	126.398	16.007	76.234	1.00117.69
ATOM	24898	O	SER	N	190	125.385	16.101	75.542	1.00117.74
ATOM	24899	CB	SER	N	190	128.078	16.139	74.404	1.00118.90
ATOM	24900	OG	SER	N	190	128.203	17.531	74.649	1.00120.43
ATOM	24901	N	GLN	N	191	126.460	16.423	77.493	1.00116.55
ATOM	24902	CA	GLN	N	191	125.333	17.058	78.166	1.00115.42
ATOM	24903	C	GLN	N	191	125.846	18.372	78.739	1.00114.74
ATOM	24904	O	GLN	N	191	127.005	18.457	79.148	1.00116.03
ATOM	24905	CB	GLN	N	191	124.827	16.173	79.300	1.00116.22
ATOM	24906	CG	GLN	N	191	125.937	15.656	80.198	1.00118.43
ATOM	24907	CD	GLN	N	191	125.418	15.091	81.503	1.00119.78
ATOM	24908	OE1	GLN	N	191	124.957	15.833	82.373	1.00120.54
ATOM	24909	NE2	GLN	N	191	125.483	13.770	81.645	1.00121.13
ATOM	24910	N	ASN	N	192	125.003	19.399	78.767	1.00112.51
ATOM	24911	CA	ASN	N	192	125.438	20.683	79.305	1.00109.94
ATOM	24912	C	ASN	N	192	126.017	20.507	80.697	1.00109.51
ATOM	24913	O	ASN	N	192	125.406	19.866	81.549	1.00110.00
ATOM	24914	CB	ASN	N	192	124.275	21.666	79.366	1.00107.35
ATOM	24915	CG	ASN	N	192	124.028	22.347	78.051	1.00103.84
ATOM	24916	OD1	ASN	N	192	124.927	22.965	77.484	1.00099.75
ATOM	24917	ND2	ASN	N	192	122.804	22.244	77.554	1.00104.74
ATOM	24918	N	LEU	N	193	127.196	21.073	80.925	1.00108.85
ATOM	24919	CA	LEU	N	193	127.833	20.965	82.230	1.00109.45
ATOM	24920	C	LEU	N	193	127.948	22.292	82.975	1.00109.20
ATOM	24921	O	LEU	N	193	127.962	23.365	82.366	1.00109.18
ATOM	24922	CB	LEU	N	193	129.223	20.329	82.101	1.00109.80

ATOM	24923	CG	LEU	N	193	129.292	18.800	82.154	1.00109.40
ATOM	24924	CD1	LEU	N	193	130.744	18.363	82.143	1.00110.15
ATOM	24925	CD2	LEU	N	193	128.610	18.290	83.419	1.00110.08
ATOM	24926	N	GLY	N	194	128.024	22.194	84.302	1.00108.17
ATOM	24927	CA	GLY	N	194	128.147	23.361	85.155	1.00106.14
ATOM	24928	C	GLY	N	194	128.834	22.963	86.447	1.00105.19
ATOM	24929	O	GLY	N	194	128.729	21.810	86.867	1.00103.01
ATOM	24930	N	TYR	N	195	129.535	23.908	87.073	1.00105.50
ATOM	24931	CA	TYR	N	195	130.246	23.640	88.324	1.00105.51
ATOM	24932	C	TYR	N	195	130.410	24.879	89.212	1.00105.70
ATOM	24933	O	TYR	N	195	130.343	26.011	88.736	1.00104.52
ATOM	24934	CB	TYR	N	195	131.631	23.071	88.022	1.00105.33
ATOM	24935	CG	TYR	N	195	132.545	24.069	87.349	1.00105.60
ATOM	24936	CD1	TYR	N	195	132.346	24.442	86.018	1.00105.37
ATOM	24937	CD2	TYR	N	195	133.586	24.673	88.054	1.00105.76
ATOM	24938	CE1	TYR	N	195	133.161	25.395	85.405	1.00104.74
ATOM	24939	CE2	TYR	N	195	134.404	25.628	87.452	1.00106.33
ATOM	24940	CZ	TYR	N	195	134.187	25.985	86.128	1.00105.24
ATOM	24941	OH	TYR	N	195	134.997	26.932	85.535	1.00104.22
ATOM	24942	N	TYR	N	196	130.632	24.643	90.504	1.00106.81
ATOM	24943	CA	TYR	N	196	130.828	25.704	91.489	1.00108.37
ATOM	24944	C	TYR	N	196	131.661	25.150	92.639	1.00110.52
ATOM	24945	O	TYR	N	196	132.000	23.971	92.639	1.00110.82
ATOM	24946	CB	TYR	N	196	129.477	26.229	92.006	1.00107.97
ATOM	24947	CG	TYR	N	196	128.673	25.289	92.898	1.00107.22
ATOM	24948	CD1	TYR	N	196	129.076	25.015	94.208	1.00107.29
ATOM	24949	CD2	TYR	N	196	127.483	24.707	92.445	1.00106.81
ATOM	24950	CE1	TYR	N	196	128.315	24.192	95.047	1.00106.78
ATOM	24951	CE2	TYR	N	196	126.713	23.881	93.274	1.00105.21
ATOM	24952	CZ	TYR	N	196	127.135	23.631	94.572	1.00105.99
ATOM	24953	OH	TYR	N	196	126.378	22.833	95.397	1.00104.77
ATOM	24954	N	LEU	N	197	131.987	25.988	93.621	1.00113.68
ATOM	24955	CA	LEU	N	197	132.797	25.540	94.760	1.00116.80
ATOM	24956	C	LEU	N	197	132.068	25.692	96.099	1.00118.13
ATOM	24957	O	LEU	N	197	130.901	26.071	96.133	1.00118.42
ATOM	24958	CB	LEU	N	197	134.113	26.325	94.807	1.00117.26
ATOM	24959	CG	LEU	N	197	134.800	26.647	93.475	1.00117.68
ATOM	24960	CD1	LEU	N	197	136.148	27.283	93.775	1.00117.39
ATOM	24961	CD2	LEU	N	197	134.971	25.391	92.625	1.00117.31
ATOM	24962	N	SER	N	198	132.764	25.391	97.195	1.00120.39
ATOM	24963	CA	SER	N	198	132.193	25.503	98.542	1.00123.39
ATOM	24964	C	SER	N	198	133.087	24.866	99.612	1.00124.99
ATOM	24965	O	SER	N	198	133.478	23.701	99.494	1.00125.22
ATOM	24966	CB	SER	N	198	130.807	24.847	98.601	1.00123.86
ATOM	24967	OG	SER	N	198	130.895	23.442	98.437	1.00126.10
ATOM	24968	N	GLY	N	199	133.395	25.634	100.658	1.00126.68
ATOM	24969	CA	GLY	N	199	134.234	25.132	101.738	1.00127.87
ATOM	24970	C	GLY	N	199	134.289	26.042	102.956	1.00128.55
ATOM	24971	O	GLY	N	199	133.256	26.385	103.532	1.00127.88
ATOM	24972	N	THR	N	200	135.502	26.429	103.348	1.00130.15
ATOM	24973	CA	THR	N	200	135.720	27.306	104.500	1.00132.00
ATOM	24974	C	THR	N	200	136.410	28.600	104.067	1.00133.07
ATOM	24975	O	THR	N	200	137.594	28.805	104.340	1.00132.96
ATOM	24976	CB	THR	N	200	136.602	26.615	105.571	1.00132.16
ATOM	24977	OG1	THR	N	200	135.955	25.423	106.028	1.00133.93
ATOM	24978	CG2	THR	N	200	136.836	27.535	106.758	1.00131.50
ATOM	24979	N	THR	N	201	135.661	29.468	103.390	1.00134.47
ATOM	24980	CA	THR	N	201	136.191	30.745	102.912	1.00135.68
ATOM	24981	C	THR	N	201	136.549	31.648	104.092	1.00135.77
ATOM	24982	O	THR	N	201	136.107	31.406	105.214	1.00136.67
ATOM	24983	CB	THR	N	201	135.165	31.466	102.008	1.00136.54
ATOM	24984	OG1	THR	N	201	135.776	32.615	101.406	1.00136.75

ATOM	24985	CG2	THR	N	201	133.947	31.900	102.824	1.00137.45
ATOM	24986	N	ALA	N	202	137.338	32.691	103.838	1.00135.16
ATOM	24987	CA	ALA	N	202	137.759	33.600	104.900	1.00134.33
ATOM	24988	C	ALA	N	202	137.274	35.040	104.742	1.00134.16
ATOM	24989	O	ALA	N	202	136.672	35.599	105.657	1.00133.23
ATOM	24990	CB	ALA	N	202	139.276	33.578	105.018	1.00133.71
ATOM	24991	N	ASP	N	203	137.540	35.638	103.585	1.00134.54
ATOM	24992	CA	ASP	N	203	137.142	37.020	103.338	1.00134.93
ATOM	24993	C	ASP	N	203	135.633	37.226	103.348	1.00135.16
ATOM	24994	O	ASP	N	203	134.865	36.300	103.612	1.00134.93
ATOM	24995	CB	ASP	N	203	137.712	37.514	101.998	1.00135.91
ATOM	24996	CG	ASP	N	203	137.142	36.768	100.799	1.00136.25
ATOM	24997	OD1	ASP	N	203	136.415	35.773	101.003	1.00136.78
ATOM	24998	OD2	ASP	N	203	137.429	37.177	99.650	1.00136.06
ATOM	24999	N	ALA	N	204	135.222	38.456	103.058	1.00135.55
ATOM	25000	CA	ALA	N	204	133.812	38.823	103.015	1.00135.85
ATOM	25001	C	ALA	N	204	133.254	38.613	101.609	1.00135.94
ATOM	25002	O	ALA	N	204	132.048	38.435	101.431	1.00136.44
ATOM	25003	CB	ALA	N	204	133.642	40.277	103.433	1.00136.35
ATOM	25004	N	GLY	N	205	134.136	38.647	100.613	1.00135.67
ATOM	25005	CA	GLY	N	205	133.713	38.444	99.239	1.00135.59
ATOM	25006	C	GLY	N	205	133.647	36.962	98.931	1.00135.72
ATOM	25007	O	GLY	N	205	133.542	36.558	97.773	1.00135.04
ATOM	25008	N	ASN	N	206	133.710	36.157	99.990	1.00136.32
ATOM	25009	CA	ASN	N	206	133.667	34.701	99.902	1.00136.21
ATOM	25010	C	ASN	N	206	134.448	34.183	98.694	1.00136.08
ATOM	25011	O	ASN	N	206	133.866	33.737	97.704	1.00136.18
ATOM	25012	CB	ASN	N	206	132.211	34.219	99.849	1.00136.77
ATOM	25013	CG	ASN	N	206	132.084	32.715	100.033	1.00137.59
ATOM	25014	OD1	ASN	N	206	130.983	32.187	100.216	1.00137.52
ATOM	25015	ND2	ASN	N	206	133.212	32.018	99.980	1.00137.36
ATOM	25016	N	SER	N	207	135.774	34.251	98.788	1.00135.28
ATOM	25017	CA	SER	N	207	136.649	33.795	97.715	1.00134.04
ATOM	25018	C	SER	N	207	138.022	33.405	98.246	1.00134.12
ATOM	25019	O	SER	N	207	138.978	33.324	97.480	1.00134.10
ATOM	25020	CB	SER	N	207	136.815	34.891	96.661	1.00132.39
ATOM	25021	OG	SER	N	207	135.570	35.244	96.095	1.00130.98
ATOM	25022	N	ILE	N	208	138.127	33.167	99.550	1.00133.94
ATOM	25023	CA	ILE	N	208	139.411	32.791	100.136	1.00134.11
ATOM	25024	C	ILE	N	208	139.293	31.678	101.173	1.00134.27
ATOM	25025	O	ILE	N	208	139.188	31.942	102.371	1.00134.38
ATOM	25026	CB	ILE	N	208	140.113	34.013	100.785	1.00133.96
ATOM	25027	CG1	ILE	N	208	140.430	35.058	99.712	1.00133.24
ATOM	25028	CG2	ILE	N	208	141.400	33.579	101.480	1.00133.94
ATOM	25029	CD1	ILE	N	208	141.119	36.299	100.244	1.00133.00
ATOM	25030	N	PHE	N	209	139.318	30.433	100.702	1.00134.43
ATOM	25031	CA	PHE	N	209	139.224	29.273	101.584	1.00134.07
ATOM	25032	C	PHE	N	209	140.599	29.072	102.216	1.00134.55
ATOM	25033	O	PHE	N	209	141.488	28.467	101.616	1.00134.65
ATOM	25034	CB	PHE	N	209	138.818	28.022	100.790	1.00132.75
ATOM	25035	CG	PHE	N	209	137.769	28.275	99.726	1.00131.70
ATOM	25036	CD1	PHE	N	209	138.136	28.733	98.458	1.00130.13
ATOM	25037	CD2	PHE	N	209	136.419	28.047	99.986	1.00130.47
ATOM	25038	CE1	PHE	N	209	137.176	28.957	97.468	1.00128.37
ATOM	25039	CE2	PHE	N	209	135.455	28.269	99.002	1.00129.10
ATOM	25040	CZ	PHE	N	209	135.835	28.724	97.741	1.00128.23
ATOM	25041	N	THR	N	210	140.759	29.592	103.430	1.00135.28
ATOM	25042	CA	THR	N	210	142.016	29.521	104.173	1.00135.97
ATOM	25043	C	THR	N	210	142.703	28.159	104.261	1.00137.21
ATOM	25044	O	THR	N	210	142.251	27.167	103.687	1.00137.31
ATOM	25045	CB	THR	N	210	141.822	30.042	105.606	1.00134.90
ATOM	25046	OG1	THR	N	210	140.426	30.250	105.848	1.00134.72

ATOM	25047	CG2	THR	N	210	142.574	31.341	105.806	1.00133.53
ATOM	25048	N	ASN	N	211	143.809	28.143	105.000	1.00138.81
ATOM	25049	CA	ASN	N	211	144.631	26.953	105.216	1.00140.40
ATOM	25050	C	ASN	N	211	143.904	25.894	106.050	1.00140.95
ATOM	25051	O	ASN	N	211	143.648	26.094	107.238	1.00140.72
ATOM	25052	CB	ASN	N	211	145.934	27.368	105.913	1.00141.28
ATOM	25053	CG	ASN	N	211	146.896	26.212	106.114	1.00141.57
ATOM	25054	OD1	ASN	N	211	147.958	26.375	106.718	1.00142.26
ATOM	25055	ND2	ASN	N	211	146.537	25.041	105.604	1.00141.42
ATOM	25056	N	THR	N	212	143.588	24.763	105.423	1.00141.71
ATOM	25057	CA	THR	N	212	142.890	23.675	106.101	1.00142.50
ATOM	25058	C	THR	N	212	143.873	22.711	106.763	1.00143.76
ATOM	25059	O	THR	N	212	143.586	21.523	106.914	1.00144.13
ATOM	25060	CB	THR	N	212	142.011	22.881	105.112	1.00141.57
ATOM	25061	OG1	THR	N	212	141.338	23.794	104.237	1.00141.29
ATOM	25062	CG2	THR	N	212	140.968	22.061	105.863	1.00140.33
ATOM	25063	N	ALA	N	213	145.033	23.228	107.157	1.00145.10
ATOM	25064	CA	ALA	N	213	146.055	22.409	107.803	1.00146.04
ATOM	25065	C	ALA	N	213	146.185	22.753	109.281	1.00146.86
ATOM	25066	O	ALA	N	213	146.456	23.902	109.642	1.00146.50
ATOM	25067	CB	ALA	N	213	147.398	22.602	107.109	1.00145.57
ATOM	25068	N	SER	N	214	145.986	21.749	110.131	1.00147.81
ATOM	25069	CA	SER	N	214	146.093	21.923	111.576	1.00148.92
ATOM	25070	C	SER	N	214	147.572	21.951	111.955	1.00149.85
ATOM	25071	O	SER	N	214	147.962	21.488	113.030	1.00149.56
ATOM	25072	CB	SER	N	214	145.390	20.769	112.300	1.00148.56
ATOM	25073	OG	SER	N	214	145.503	20.896	113.707	1.00147.23
ATOM	25074	N	PHE	N	215	148.383	22.501	111.053	1.00150.73
ATOM	25075	CA	PHE	N	215	149.829	22.602	111.233	1.00151.23
ATOM	25076	C	PHE	N	215	150.241	23.829	112.045	1.00152.32
ATOM	25077	O	PHE	N	215	151.368	23.909	112.538	1.00152.40
ATOM	25078	CB	PHE	N	215	150.510	22.627	109.860	1.00149.08
ATOM	25079	CG	PHE	N	215	152.002	22.750	109.920	1.00146.82
ATOM	25080	CD1	PHE	N	215	152.796	21.620	110.072	1.00145.67
ATOM	25081	CD2	PHE	N	215	152.615	23.992	109.823	1.00145.63
ATOM	25082	CE1	PHE	N	215	154.179	21.722	110.121	1.00145.28
ATOM	25083	CE2	PHE	N	215	154.000	24.105	109.870	1.00145.48
ATOM	25084	CZ	PHE	N	215	154.783	22.967	110.019	1.00144.94
ATOM	25085	N	SER	N	216	149.319	24.777	112.183	1.00153.85
ATOM	25086	CA	SER	N	216	149.571	26.005	112.930	1.00154.98
ATOM	25087	C	SER	N	216	150.734	26.807	112.327	1.00155.83
ATOM	25088	O	SER	N	216	151.602	27.296	113.050	1.00156.41
ATOM	25089	CB	SER	N	216	149.865	25.662	114.397	1.00154.49
ATOM	25090	OG	SER	N	216	150.105	26.823	115.171	1.00154.49
ATOM	25091	N	PRO	N	217	150.759	26.958	110.988	1.00156.35
ATOM	25092	CA	PRO	N	217	151.829	27.705	110.316	1.00156.13
ATOM	25093	C	PRO	N	217	151.734	29.221	110.501	1.00155.67
ATOM	25094	O	PRO	N	217	151.595	29.711	111.621	1.00156.03
ATOM	25095	CB	PRO	N	217	151.667	27.285	108.861	1.00156.69
ATOM	25096	CG	PRO	N	217	150.187	27.165	108.734	1.00157.61
ATOM	25097	CD	PRO	N	217	149.809	26.416	109.998	1.00157.24
ATOM	25098	N	ALA	N	218	151.810	29.957	109.397	1.00154.97
ATOM	25099	CA	ALA	N	218	151.742	31.415	109.431	1.00154.14
ATOM	25100	C	ALA	N	218	150.311	31.924	109.588	1.00153.92
ATOM	25101	O	ALA	N	218	149.425	31.196	110.038	1.00153.43
ATOM	25102	CB	ALA	N	218	152.360	31.989	108.162	1.00153.34
ATOM	25103	N	GLN	N	219	150.101	33.183	109.211	1.00153.76
ATOM	25104	CA	GLN	N	219	148.790	33.823	109.289	1.00153.12
ATOM	25105	C	GLN	N	219	148.459	34.532	107.977	1.00152.41
ATOM	25106	O	GLN	N	219	149.324	34.696	107.114	1.00152.28
ATOM	25107	CB	GLN	N	219	148.759	34.839	110.435	1.00153.93
ATOM	25108	CG	GLN	N	219	148.785	34.228	111.828	1.00154.91

ATOM	25109	CD	GLN	N	219	148.746	35.274	112.929	1.00155.18
ATOM	25110	OE1	GLN	N	219	148.582	34.947	114.105	1.00155.38
ATOM	25111	NE2	GLN	N	219	148.903	36.540	112.553	1.00155.83
ATOM	25112	N	GLY	N	220	147.204	34.953	107.836	1.00151.45
ATOM	25113	CA	GLY	N	220	146.783	35.637	106.625	1.00150.04
ATOM	25114	C	GLY	N	220	147.146	34.879	105.360	1.00149.21
ATOM	25115	O	GLY	N	220	147.830	35.417	104.486	1.00148.52
ATOM	25116	N	VAL	N	221	146.690	33.630	105.266	1.00148.20
ATOM	25117	CA	VAL	N	221	146.964	32.784	104.105	1.00147.04
ATOM	25118	C	VAL	N	221	145.774	31.899	103.742	1.00146.81
ATOM	25119	O	VAL	N	221	145.167	31.270	104.608	1.00146.71
ATOM	25120	CB	VAL	N	221	148.183	31.865	104.347	1.00146.52
ATOM	25121	CG1	VAL	N	221	148.407	30.964	103.138	1.00145.43
ATOM	25122	CG2	VAL	N	221	149.420	32.705	104.616	1.00146.66
ATOM	25123	N	GLY	N	222	145.460	31.855	102.450	1.00146.69
ATOM	25124	CA	GLY	N	222	144.354	31.048	101.962	1.00146.31
ATOM	25125	C	GLY	N	222	144.460	30.807	100.464	1.00146.22
ATOM	25126	O	GLY	N	222	145.519	31.024	99.870	1.00146.47
ATOM	25127	N	VAL	N	223	143.369	30.358	99.849	1.00145.49
ATOM	25128	CA	VAL	N	223	143.355	30.093	98.411	1.00144.52
ATOM	25129	C	VAL	N	223	142.214	30.857	97.743	1.00143.64
ATOM	25130	O	VAL	N	223	141.151	31.030	98.334	1.00143.60
ATOM	25131	CB	VAL	N	223	143.175	28.583	98.119	1.00144.85
ATOM	25132	CG1	VAL	N	223	143.328	28.321	96.629	1.00144.43
ATOM	25133	CG2	VAL	N	223	144.189	27.770	98.910	1.00144.48
ATOM	25134	N	GLN	N	224	142.439	31.313	96.514	1.00142.71
ATOM	25135	CA	GLN	N	224	141.422	32.057	95.773	1.00142.17
ATOM	25136	C	GLN	N	224	141.542	31.747	94.281	1.00141.58
ATOM	25137	O	GLN	N	224	141.978	32.583	93.488	1.00141.57
ATOM	25138	CB	GLN	N	224	141.587	33.563	96.032	1.00142.55
ATOM	25139	CG	GLN	N	224	140.461	34.443	95.492	1.00142.44
ATOM	25140	CD	GLN	N	224	140.386	35.799	96.188	1.00142.10
ATOM	25141	OE1	GLN	N	224	139.501	36.607	95.906	1.00142.30
ATOM	25142	NE2	GLN	N	224	141.314	36.048	97.103	1.00141.72
ATOM	25143	N	LEU	N	225	141.144	30.529	93.919	1.00141.02
ATOM	25144	CA	LEU	N	225	141.199	30.028	92.544	1.00140.31
ATOM	25145	C	LEU	N	225	140.914	31.063	91.463	1.00139.65
ATOM	25146	O	LEU	N	225	140.275	32.085	91.716	1.00139.51
ATOM	25147	CB	LEU	N	225	140.224	28.857	92.377	1.00140.19
ATOM	25148	CG	LEU	N	225	140.334	27.694	93.367	1.00139.95
ATOM	25149	CD1	LEU	N	225	139.306	26.636	93.015	1.00139.41
ATOM	25150	CD2	LEU	N	225	141.732	27.104	93.333	1.00139.23
ATOM	25151	N	THR	N	226	141.397	30.784	90.255	1.00139.02
ATOM	25152	CA	THR	N	226	141.188	31.670	89.116	1.00139.53
ATOM	25153	C	THR	N	226	141.050	30.873	87.824	1.00139.36
ATOM	25154	O	THR	N	226	141.641	29.803	87.678	1.00139.28
ATOM	25155	CB	THR	N	226	142.345	32.682	88.946	1.00140.08
ATOM	25156	OG1	THR	N	226	142.074	33.532	87.821	1.00139.42
ATOM	25157	CG2	THR	N	226	143.662	31.963	88.719	1.00139.83
ATOM	25158	N	ARG	N	227	140.271	31.407	86.888	1.00139.24
ATOM	25159	CA	ARG	N	227	140.036	30.755	85.607	1.00139.29
ATOM	25160	C	ARG	N	227	140.611	31.535	84.426	1.00138.63
ATOM	25161	O	ARG	N	227	139.928	32.362	83.820	1.00137.34
ATOM	25162	CB	ARG	N	227	138.528	30.516	85.409	1.00140.48
ATOM	25163	CG	ARG	N	227	137.606	31.609	85.977	1.00141.75
ATOM	25164	CD	ARG	N	227	136.118	31.273	85.757	1.00142.29
ATOM	25165	NE	ARG	N	227	135.201	32.291	86.283	1.00142.56
ATOM	25166	CZ	ARG	N	227	134.826	32.394	87.558	1.00142.81
ATOM	25167	NH1	ARG	N	227	135.280	31.539	88.462	1.00143.00
ATOM	25168	NH2	ARG	N	227	133.992	33.355	87.935	1.00142.19
ATOM	25169	N	ASN	N	228	141.875	31.255	84.110	1.00138.47
ATOM	25170	CA	ASN	N	228	142.589	31.905	83.009	1.00138.46

ATOM	25171	C	ASN	N	228	142.763	33.399	83.284	1.00138.26
ATOM	25172	O	ASN	N	228	143.672	34.046	82.752	1.00137.68
ATOM	25173	CB	ASN	N	228	141.831	31.700	81.688	1.00138.61
ATOM	25174	CG	ASN	N	228	142.638	32.131	80.466	1.00138.63
ATOM	25175	OD1	ASN	N	228	142.149	32.074	79.335	1.00138.01
ATOM	25176	ND2	ASN	N	228	143.877	32.557	80.690	1.00138.80
ATOM	25177	N	GLY	N	229	141.886	33.935	84.127	1.00137.65
ATOM	25178	CA	GLY	N	229	141.940	35.343	84.467	1.00136.56
ATOM	25179	C	GLY	N	229	140.641	35.809	85.096	1.00135.43
ATOM	25180	O	GLY	N	229	140.060	36.813	84.675	1.00134.90
ATOM	25181	N	THR	N	230	140.185	35.070	86.103	1.00134.15
ATOM	25182	CA	THR	N	230	138.950	35.390	86.813	1.00132.61
ATOM	25183	C	THR	N	230	138.912	34.568	88.095	1.00131.52
ATOM	25184	O	THR	N	230	139.303	33.406	88.087	1.00131.45
ATOM	25185	CB	THR	N	230	137.709	35.036	85.968	1.00132.51
ATOM	25186	OG1	THR	N	230	137.757	35.734	84.716	1.00132.39
ATOM	25187	CG2	THR	N	230	136.440	35.417	86.713	1.00131.90
ATOM	25188	N	ILE	N	231	138.444	35.157	89.192	1.00130.73
ATOM	25189	CA	ILE	N	231	138.387	34.426	90.456	1.00130.24
ATOM	25190	C	ILE	N	231	137.085	33.648	90.668	1.00129.72
ATOM	25191	O	ILE	N	231	135.989	34.126	90.362	1.00129.37
ATOM	25192	CB	ILE	N	231	138.642	35.367	91.669	1.00130.09
ATOM	25193	CG1	ILE	N	231	140.120	35.769	91.702	1.00129.30
ATOM	25194	CG2	ILE	N	231	138.267	34.669	92.973	1.00130.40
ATOM	25195	CD1	ILE	N	231	140.521	36.580	92.916	1.00128.58
ATOM	25196	N	ILE	N	232	137.234	32.433	91.193	1.00128.98
ATOM	25197	CA	ILE	N	232	136.112	31.541	91.457	1.00128.04
ATOM	25198	C	ILE	N	232	135.751	31.557	92.950	1.00127.13
ATOM	25199	O	ILE	N	232	136.425	30.921	93.770	1.00127.89
ATOM	25200	CB	ILE	N	232	136.460	30.074	91.062	1.00128.52
ATOM	25201	CG1	ILE	N	232	137.362	30.053	89.824	1.00128.80
ATOM	25202	CG2	ILE	N	232	135.182	29.292	90.774	1.00128.62
ATOM	25203	CD1	ILE	N	232	137.849	28.666	89.440	1.00128.12
ATOM	25204	N	PRO	N	233	134.693	32.300	93.323	1.00124.98
ATOM	25205	CA	PRO	N	233	134.260	32.376	94.726	1.00121.99
ATOM	25206	C	PRO	N	233	133.376	31.188	95.132	1.00119.51
ATOM	25207	O	PRO	N	233	132.773	30.531	94.281	1.00119.27
ATOM	25208	CB	PRO	N	233	133.512	33.704	94.773	1.00122.24
ATOM	25209	CG	PRO	N	233	132.890	33.773	93.413	1.00123.32
ATOM	25210	CD	PRO	N	233	134.014	33.325	92.506	1.00123.99
ATOM	25211	N	ALA	N	234	133.298	30.916	96.431	1.00116.70
ATOM	25212	CA	ALA	N	234	132.483	29.808	96.923	1.00114.12
ATOM	25213	C	ALA	N	234	131.005	29.986	96.584	1.00112.21
ATOM	25214	O	ALA	N	234	130.409	31.018	96.891	1.00112.73
ATOM	25215	CB	ALA	N	234	132.647	29.663	98.436	1.00114.24
ATOM	25216	N	ASN	N	235	130.423	28.971	95.953	1.00109.81
ATOM	25217	CA	ASN	N	235	129.011	28.977	95.580	1.00106.73
ATOM	25218	C	ASN	N	235	128.731	29.806	94.332	1.00106.46
ATOM	25219	O	ASN	N	235	127.683	30.437	94.230	1.00106.94
ATOM	25220	CB	ASN	N	235	128.160	29.502	96.742	1.00103.76
ATOM	25221	CG	ASN	N	235	128.425	28.766	98.043	1.00101.01
ATOM	25222	OD1	ASN	N	235	128.007	29.206	99.110	1.00 99.57
ATOM	25223	ND2	ASN	N	235	129.110	27.637	97.959	1.00100.85
ATOM	25224	N	ASN	N	236	129.658	29.806	93.380	1.00106.49
ATOM	25225	CA	ASN	N	236	129.462	30.571	92.152	1.00107.03
ATOM	25226	C	ASN	N	236	129.561	29.693	90.913	1.00106.20
ATOM	25227	O	ASN	N	236	130.589	29.661	90.241	1.00105.85
ATOM	25228	CB	ASN	N	236	130.485	31.699	92.057	1.00108.97
ATOM	25229	CG	ASN	N	236	130.254	32.584	90.851	1.00110.95
ATOM	25230	OD1	ASN	N	236	129.209	33.226	90.733	1.00111.06
ATOM	25231	ND2	ASN	N	236	131.227	32.619	89.942	1.00112.52
ATOM	25232	N	THR	N	237	128.475	28.996	90.609	1.00105.94

ATOM	25233	CA	THR N 237	128.425	28.097	89.467	1.00107.12
ATOM	25234	C	THR N 237	128.764	28.776	88.145	1.00107.77
ATOM	25235	O	THR N 237	128.317	29.890	87.878	1.00109.02
ATOM	25236	CB	THR N 237	127.037	27.465	89.348	1.00107.26
ATOM	25237	OG1	THR N 237	126.645	26.946	90.622	1.00108.06
ATOM	25238	CG2	THR N 237	127.052	26.333	88.336	1.00108.56
ATOM	25239	N	VAL N 238	129.554	28.095	87.318	1.00108.05
ATOM	25240	CA	VAL N 238	129.945	28.625	86.014	1.00107.41
ATOM	25241	C	VAL N 238	129.511	27.631	84.944	1.00107.46
ATOM	25242	O	VAL N 238	129.438	26.429	85.204	1.00106.63
ATOM	25243	CB	VAL N 238	131.475	28.827	85.908	1.00106.74
ATOM	25244	CG1	VAL N 238	131.801	29.679	84.681	1.00105.08
ATOM	25245	CG2	VAL N 238	132.011	29.475	87.179	1.00106.14
ATOM	25246	N	SER N 239	129.229	28.134	83.744	1.00107.69
ATOM	25247	CA	SER N 239	128.789	27.288	82.634	1.00108.13
ATOM	25248	C	SER N 239	129.945	26.643	81.875	1.00108.81
ATOM	25249	O	SER N 239	131.095	27.072	81.984	1.00110.36
ATOM	25250	CB	SER N 239	127.934	28.100	81.654	1.00107.18
ATOM	25251	OG	SER N 239	127.472	27.293	80.584	1.00105.68
ATOM	25252	N	LEU N 240	129.628	25.607	81.105	1.00108.74
ATOM	25253	CA	LEU N 240	130.623	24.896	80.315	1.00108.01
ATOM	25254	C	LEU N 240	130.086	24.658	78.917	1.00107.26
ATOM	25255	O	LEU N 240	130.821	24.259	78.019	1.00107.13
ATOM	25256	CB	LEU N 240	130.966	23.556	80.970	1.00107.98
ATOM	25257	CG	LEU N 240	131.763	23.636	82.273	1.00109.08
ATOM	25258	CD1	LEU N 240	131.920	22.246	82.863	1.00109.52
ATOM	25259	CD2	LEU N 240	133.129	24.260	82.000	1.00109.33
ATOM	25260	N	GLY N 241	128.796	24.919	78.739	1.00107.21
ATOM	25261	CA	GLY N 241	128.177	24.711	77.446	1.00107.45
ATOM	25262	C	GLY N 241	128.028	23.226	77.173	1.00107.59
ATOM	25263	O	GLY N 241	127.430	22.495	77.969	1.00107.39
ATOM	25264	N	ALA N 242	128.580	22.777	76.050	1.00107.75
ATOM	25265	CA	ALA N 242	128.518	21.369	75.670	1.00106.40
ATOM	25266	C	ALA N 242	129.856	20.682	75.915	1.00105.15
ATOM	25267	O	ALA N 242	130.891	21.120	75.404	1.00103.14
ATOM	25268	CB	ALA N 242	128.123	21.238	74.202	1.00106.30
ATOM	25269	N	VAL N 243	129.813	19.612	76.708	1.00104.66
ATOM	25270	CA	VAL N 243	130.994	18.816	77.046	1.00104.39
ATOM	25271	C	VAL N 243	130.793	17.374	76.566	1.00106.12
ATOM	25272	O	VAL N 243	130.098	16.585	77.217	1.00106.25
ATOM	25273	CB	VAL N 243	131.236	18.787	78.564	1.00101.27
ATOM	25274	CG1	VAL N 243	132.593	18.186	78.857	1.00 99.69
ATOM	25275	CG2	VAL N 243	131.132	20.182	79.133	1.00101.58
ATOM	25276	N	GLY N 244	131.405	17.041	75.429	1.00107.16
ATOM	25277	CA	GLY N 244	131.280	15.708	74.861	1.00108.08
ATOM	25278	C	GLY N 244	132.177	14.674	75.511	1.00108.85
ATOM	25279	O	GLY N 244	131.992	14.324	76.675	1.00109.19
ATOM	25280	N	THR N 245	133.145	14.172	74.753	1.00108.89
ATOM	25281	CA	THR N 245	134.078	13.177	75.265	1.00108.87
ATOM	25282	C	THR N 245	135.498	13.708	75.167	1.00109.41
ATOM	25283	O	THR N 245	136.406	13.203	75.832	1.00108.61
ATOM	25284	CB	THR N 245	133.976	11.868	74.477	1.00109.21
ATOM	25285	OG1	THR N 245	134.052	12.147	73.074	1.00109.63
ATOM	25286	CG2	THR N 245	132.664	11.172	74.783	1.00109.76
ATOM	25287	N	SER N 246	135.672	14.730	74.329	1.00110.32
ATOM	25288	CA	SER N 246	136.966	15.376	74.126	1.00110.70
ATOM	25289	C	SER N 246	137.272	16.257	75.338	1.00111.78
ATOM	25290	O	SER N 246	137.015	17.466	75.335	1.00111.20
ATOM	25291	CB	SER N 246	136.938	16.229	72.856	1.00108.94
ATOM	25292	OG	SER N 246	135.981	17.265	72.969	1.00107.47
ATOM	25293	N	ALA N 247	137.818	15.618	76.369	1.00112.72
ATOM	25294	CA	ALA N 247	138.172	16.254	77.633	1.00114.36

ATOM	25295	C	ALA	N	247	138.332	17.774	77.625	1.00115.54
ATOM	25296	O	ALA	N	247	138.956	18.355	76.732	1.00114.72
ATOM	25297	CB	ALA	N	247	139.438	15.612	78.191	1.00114.32
ATOM	25298	N	VAL	N	248	137.755	18.401	78.646	1.00116.99
ATOM	25299	CA	VAL	N	248	137.820	19.843	78.832	1.00117.14
ATOM	25300	C	VAL	N	248	138.390	20.084	80.230	1.00117.64
ATOM	25301	O	VAL	N	248	137.887	19.551	81.221	1.00115.07
ATOM	25302	CB	VAL	N	248	136.414	20.505	78.715	1.00116.87
ATOM	25303	CG1	VAL	N	248	136.525	22.010	78.899	1.00115.74
ATOM	25304	CG2	VAL	N	248	135.796	20.195	77.353	1.00116.50
ATOM	25305	N	SER	N	249	139.460	20.869	80.293	1.00119.91
ATOM	25306	CA	SER	N	249	140.117	21.190	81.553	1.00123.03
ATOM	25307	C	SER	N	249	139.479	22.420	82.191	1.00125.58
ATOM	25308	O	SER	N	249	139.189	23.399	81.500	1.00127.49
ATOM	25309	CB	SER	N	249	141.608	21.454	81.316	1.00122.68
ATOM	25310	OG	SER	N	249	142.274	21.786	82.524	1.00122.42
ATOM	25311	N	LEU	N	250	139.266	22.375	83.505	1.00127.19
ATOM	25312	CA	LEU	N	250	138.659	23.500	84.216	1.00128.03
ATOM	25313	C	LEU	N	250	139.552	24.738	84.248	1.00129.61
ATOM	25314	O	LEU	N	250	139.086	25.836	84.557	1.00129.63
ATOM	25315	CB	LEU	N	250	138.297	23.100	85.651	1.00125.96
ATOM	25316	CG	LEU	N	250	137.065	22.213	85.845	1.00124.35
ATOM	25317	CD1	LEU	N	250	136.845	21.978	87.329	1.00124.30
ATOM	25318	CD2	LEU	N	250	135.843	22.879	85.235	1.00123.52
ATOM	25319	N	GLY	N	251	140.831	24.558	83.922	1.00131.58
ATOM	25320	CA	GLY	N	251	141.761	25.674	83.924	1.00133.09
ATOM	25321	C	GLY	N	251	141.647	26.446	85.219	1.00133.85
ATOM	25322	O	GLY	N	251	140.907	27.426	85.308	1.00133.49
ATOM	25323	N	LEU	N	252	142.385	26.006	86.229	1.00134.99
ATOM	25324	CA	LEU	N	252	142.336	26.651	87.530	1.00136.91
ATOM	25325	C	LEU	N	252	143.733	26.950	88.072	1.00138.48
ATOM	25326	O	LEU	N	252	144.734	26.497	87.515	1.00138.75
ATOM	25327	CB	LEU	N	252	141.585	25.744	88.505	1.00136.61
ATOM	25328	CG	LEU	N	252	140.331	25.069	87.940	1.00136.53
ATOM	25329	CD1	LEU	N	252	139.718	24.167	88.999	1.00137.05
ATOM	25330	CD2	LEU	N	252	139.332	26.121	87.491	1.00137.36
ATOM	25331	N	THR	N	253	143.791	27.720	89.159	1.00140.09
ATOM	25332	CA	THR	N	253	145.059	28.074	89.796	1.00141.44
ATOM	25333	C	THR	N	253	144.887	28.162	91.314	1.00142.21
ATOM	25334	O	THR	N	253	143.893	28.700	91.802	1.00142.31
ATOM	25335	CB	THR	N	253	145.597	29.432	89.281	1.00141.54
ATOM	25336	OG1	THR	N	253	145.662	29.415	87.850	1.00142.53
ATOM	25337	CG2	THR	N	253	146.993	29.695	89.832	1.00140.77
ATOM	25338	N	ALA	N	254	145.856	27.623	92.051	1.00143.26
ATOM	25339	CA	ALA	N	254	145.824	27.645	93.513	1.00144.53
ATOM	25340	C	ALA	N	254	146.560	28.884	94.018	1.00145.11
ATOM	25341	O	ALA	N	254	147.679	28.794	94.526	1.00145.38
ATOM	25342	CB	ALA	N	254	146.473	26.381	94.075	1.00144.57
ATOM	25343	N	ASN	N	255	145.917	30.039	93.875	1.00145.39
ATOM	25344	CA	ASN	N	255	146.496	31.310	94.286	1.00145.90
ATOM	25345	C	ASN	N	255	146.436	31.543	95.789	1.00146.34
ATOM	25346	O	ASN	N	255	145.421	31.262	96.428	1.00145.94
ATOM	25347	CB	ASN	N	255	145.769	32.457	93.586	1.00146.49
ATOM	25348	CG	ASN	N	255	145.722	32.286	92.085	1.00147.67
ATOM	25349	OD1	ASN	N	255	146.755	32.298	91.413	1.00149.57
ATOM	25350	ND2	ASN	N	255	144.518	32.126	91.546	1.00147.89
ATOM	25351	N	TYR	N	256	147.531	32.054	96.347	1.00147.14
ATOM	25352	CA	TYR	N	256	147.589	32.365	97.771	1.00147.81
ATOM	25353	C	TYR	N	256	146.878	33.703	97.937	1.00147.54
ATOM	25354	O	TYR	N	256	146.947	34.562	97.056	1.00147.61
ATOM	25355	CB	TYR	N	256	149.038	32.512	98.262	1.00149.14
ATOM	25356	CG	TYR	N	256	149.809	31.219	98.484	1.00150.72

ATOM	25357	CD1	TYR	N	256	150.209	30.419	97.409	1.00151.05
ATOM	25358	CD2	TYR	N	256	150.174	30.816	99.773	1.00150.73
ATOM	25359	CE1	TYR	N	256	150.957	29.252	97.613	1.00150.43
ATOM	25360	CE2	TYR	N	256	150.919	29.653	99.986	1.00150.38
ATOM	25361	CZ	TYR	N	256	151.307	28.879	98.903	1.00150.39
ATOM	25362	OH	TYR	N	256	152.052	27.741	99.110	1.00149.81
ATOM	25363	N	ALA	N	257	146.192	33.876	99.059	1.00146.85
ATOM	25364	CA	ALA	N	257	145.476	35.114	99.336	1.00146.03
ATOM	25365	C	ALA	N	257	145.599	35.398	100.824	1.00145.94
ATOM	25366	O	ALA	N	257	145.623	34.471	101.633	1.00146.07
ATOM	25367	CB	ALA	N	257	144.012	34.975	98.941	1.00145.12
ATOM	25368	N	ARG	N	258	145.681	36.673	101.189	1.00145.83
ATOM	25369	CA	ARG	N	258	145.815	37.034	102.595	1.00145.40
ATOM	25370	C	ARG	N	258	144.485	37.242	103.306	1.00145.41
ATOM	25371	O	ARG	N	258	143.622	37.993	102.848	1.00145.21
ATOM	25372	CB	ARG	N	258	146.694	38.283	102.746	1.00144.57
ATOM	25373	CG	ARG	N	258	148.175	38.009	102.502	1.00142.78
ATOM	25374	CD	ARG	N	258	149.039	39.251	102.676	1.00139.61
ATOM	25375	NE	ARG	N	258	150.461	38.938	102.556	1.00136.67
ATOM	25376	CZ	ARG	N	258	151.440	39.806	102.781	1.00134.84
ATOM	25377	NH1	ARG	N	258	151.154	41.051	103.140	1.00134.44
ATOM	25378	NH2	ARG	N	258	152.704	39.428	102.651	1.00132.09
ATOM	25379	N	THR	N	259	144.335	36.551	104.432	1.00145.58
ATOM	25380	CA	THR	N	259	143.133	36.632	105.250	1.00145.43
ATOM	25381	C	THR	N	259	143.409	37.567	106.425	1.00145.81
ATOM	25382	O	THR	N	259	142.611	37.678	107.360	1.00145.89
ATOM	25383	CB	THR	N	259	142.731	35.236	105.772	1.00144.64
ATOM	25384	OG1	THR	N	259	143.806	34.678	106.538	1.00144.00
ATOM	25385	CG2	THR	N	259	142.418	34.312	104.606	1.00143.48
ATOM	25386	N	GLY	N	260	144.553	38.243	106.356	1.00146.05
ATOM	25387	CA	GLY	N	260	144.943	39.175	107.395	1.00146.35
ATOM	25388	C	GLY	N	260	146.144	40.001	106.976	1.00146.54
ATOM	25389	O	GLY	N	260	146.382	41.088	107.505	1.00146.44
ATOM	25390	N	GLY	N	261	146.899	39.485	106.012	1.00146.82
ATOM	25391	CA	GLY	N	261	148.079	40.185	105.545	1.00147.25
ATOM	25392	C	GLY	N	261	149.242	39.924	106.480	1.00147.60
ATOM	25393	O	GLY	N	261	150.049	40.814	106.743	1.00147.21
ATOM	25394	N	GLN	N	262	149.324	38.691	106.977	1.00148.25
ATOM	25395	CA	GLN	N	262	150.376	38.282	107.911	1.00148.44
ATOM	25396	C	GLN	N	262	151.118	37.033	107.414	1.00148.74
ATOM	25397	O	GLN	N	262	151.533	36.191	108.212	1.00148.75
ATOM	25398	CB	GLN	N	262	149.756	37.997	109.288	1.00147.78
ATOM	25399	CG	GLN	N	262	150.750	37.743	110.419	1.00145.18
ATOM	25400	CD	GLN	N	262	151.197	39.017	111.100	1.00143.58
ATOM	25401	OE1	GLN	N	262	151.660	39.950	110.451	1.00143.58
ATOM	25402	NE2	GLN	N	262	151.062	39.061	112.418	1.00141.99
ATOM	25403	N	VAL	N	263	151.283	36.914	106.100	1.00148.73
ATOM	25404	CA	VAL	N	263	151.971	35.763	105.518	1.00148.63
ATOM	25405	C	VAL	N	263	153.356	35.559	106.124	1.00148.97
ATOM	25406	O	VAL	N	263	154.159	36.490	106.186	1.00149.09
ATOM	25407	CB	VAL	N	263	152.128	35.921	103.996	1.00148.21
ATOM	25408	CG1	VAL	N	263	152.827	34.702	103.416	1.00147.60
ATOM	25409	CG2	VAL	N	263	150.768	36.108	103.357	1.00148.09
ATOM	25410	N	THR	N	264	153.635	34.336	106.565	1.00149.08
ATOM	25411	CA	THR	N	264	154.927	34.023	107.166	1.00149.28
ATOM	25412	C	THR	N	264	155.394	32.633	106.737	1.00149.54
ATOM	25413	O	THR	N	264	155.073	32.176	105.640	1.00149.30
ATOM	25414	CB	THR	N	264	154.846	34.083	108.709	1.00149.20
ATOM	25415	OG1	THR	N	264	154.038	35.200	109.103	1.00148.46
ATOM	25416	CG2	THR	N	264	156.238	34.250	109.312	1.00148.82
ATOM	25417	N	ALA	N	265	156.149	31.964	107.605	1.00150.29
ATOM	25418	CA	ALA	N	265	156.669	30.631	107.317	1.00151.53

ATOM	25419	C	ALA	N	265	155.894	29.531	108.042	1.00152.79
ATOM	25420	O	ALA	N	265	155.579	29.654	109.228	1.00153.62
ATOM	25421	CB	ALA	N	265	158.144	30.563	107.693	1.00151.04
ATOM	25422	N	GLY	N	266	155.596	28.452	107.321	1.00153.89
ATOM	25423	CA	GLY	N	266	154.860	27.341	107.901	1.00154.69
ATOM	25424	C	GLY	N	266	154.093	26.541	106.862	1.00155.30
ATOM	25425	O	GLY	N	266	153.325	27.105	106.080	1.00154.85
ATOM	25426	N	ASN	N	267	154.299	25.225	106.853	1.00156.28
ATOM	25427	CA	ASN	N	267	153.630	24.335	105.902	1.00156.88
ATOM	25428	C	ASN	N	267	152.129	24.618	105.814	1.00156.90
ATOM	25429	O	ASN	N	267	151.453	24.787	106.831	1.00156.89
ATOM	25430	CB	ASN	N	267	153.866	22.867	106.291	1.00157.04
ATOM	25431	CG	ASN	N	267	155.312	22.430	106.094	1.00156.54
ATOM	25432	OD1	ASN	N	267	155.815	22.394	104.970	1.00155.97
ATOM	25433	ND2	ASN	N	267	155.987	22.097	107.191	1.00156.56
ATOM	25434	N	VAL	N	268	151.619	24.663	104.586	1.00156.69
ATOM	25435	CA	VAL	N	268	150.207	24.942	104.341	1.00156.89
ATOM	25436	C	VAL	N	268	149.523	23.756	103.646	1.00157.13
ATOM	25437	O	VAL	N	268	150.193	22.824	103.199	1.00157.33
ATOM	25438	CB	VAL	N	268	150.056	26.216	103.464	1.00156.51
ATOM	25439	CG1	VAL	N	268	148.612	26.689	103.457	1.00156.52
ATOM	25440	CG2	VAL	N	268	150.973	27.315	103.982	1.00155.97
ATOM	25441	N	GLN	N	269	148.192	23.798	103.569	1.00157.00
ATOM	25442	CA	GLN	N	269	147.385	22.750	102.932	1.00156.18
ATOM	25443	C	GLN	N	269	146.002	23.315	102.593	1.00155.86
ATOM	25444	O	GLN	N	269	145.660	24.419	103.020	1.00156.04
ATOM	25445	CB	GLN	N	269	147.229	21.553	103.876	1.00155.95
ATOM	25446	CG	GLN	N	269	148.521	20.814	104.172	1.00156.34
ATOM	25447	CD	GLN	N	269	148.458	20.020	105.462	1.00156.68
ATOM	25448	OE1	GLN	N	269	147.631	19.121	105.614	1.00155.69
ATOM	25449	NE2	GLN	N	269	149.335	20.353	106.403	1.00156.67
ATOM	25450	N	SER	N	270	145.208	22.566	101.828	1.00155.17
ATOM	25451	CA	SER	N	270	143.866	23.021	101.454	1.00154.20
ATOM	25452	C	SER	N	270	143.009	21.905	100.855	1.00153.15
ATOM	25453	O	SER	N	270	143.530	20.935	100.300	1.00152.51
ATOM	25454	CB	SER	N	270	143.958	24.186	100.462	1.00154.50
ATOM	25455	OG	SER	N	270	142.678	24.731	100.187	1.00154.16
ATOM	25456	N	ILE	N	271	141.690	22.058	100.970	1.00152.05
ATOM	25457	CA	ILE	N	271	140.738	21.072	100.458	1.00150.15
ATOM	25458	C	ILE	N	271	139.468	21.708	99.868	1.00148.82
ATOM	25459	O	ILE	N	271	138.484	21.936	100.579	1.00148.34
ATOM	25460	CB	ILE	N	271	140.329	20.073	101.575	1.00150.10
ATOM	25461	CG1	ILE	N	271	139.844	20.837	102.813	1.00149.47
ATOM	25462	CG2	ILE	N	271	141.511	19.180	101.930	1.00149.25
ATOM	25463	CD1	ILE	N	271	139.325	19.952	103.933	1.00149.84
ATOM	25464	N	ILE	N	272	139.497	21.985	98.564	1.00146.91
ATOM	25465	CA	ILE	N	272	138.361	22.588	97.866	1.00144.59
ATOM	25466	C	ILE	N	272	137.503	21.497	97.233	1.00143.23
ATOM	25467	O	ILE	N	272	138.015	20.448	96.849	1.00143.12
ATOM	25468	CB	ILE	N	272	138.825	23.537	96.735	1.00144.49
ATOM	25469	CG1	ILE	N	272	139.879	24.518	97.260	1.00144.86
ATOM	25470	CG2	ILE	N	272	137.627	24.281	96.159	1.00142.91
ATOM	25471	CD1	ILE	N	272	139.412	25.391	98.406	1.00145.79
ATOM	25472	N	GLY	N	273	136.203	21.749	97.122	1.00141.70
ATOM	25473	CA	GLY	N	273	135.309	20.768	96.529	1.00139.48
ATOM	25474	C	GLY	N	273	134.582	21.300	95.308	1.00137.79
ATOM	25475	O	GLY	N	273	133.626	22.064	95.436	1.00138.39
ATOM	25476	N	VAL	N	274	135.027	20.893	94.121	1.00135.59
ATOM	25477	CA	VAL	N	274	134.414	21.348	92.874	1.00133.20
ATOM	25478	C	VAL	N	274	133.116	20.605	92.547	1.00131.86
ATOM	25479	O	VAL	N	274	133.096	19.706	91.702	1.00130.91
ATOM	25480	CB	VAL	N	274	135.387	21.191	91.681	1.00132.84

ATOM	25481	CG1	VAL	N	274	134.801	21.847	90.445	1.00132.58
ATOM	25482	CG2	VAL	N	274	136.726	21.814	92.014	1.00132.15
ATOM	25483	N	THR	N	275	132.036	20.995	93.220	1.00130.23
ATOM	25484	CA	THR	N	275	130.727	20.385	93.011	1.00128.02
ATOM	25485	C	THR	N	275	130.223	20.673	91.601	1.00126.95
ATOM	25486	O	THR	N	275	130.285	21.807	91.129	1.00125.78
ATOM	25487	CB	THR	N	275	129.684	20.930	94.011	1.00127.67
ATOM	25488	OG1	THR	N	275	130.136	20.701	95.351	1.00126.53
ATOM	25489	CG2	THR	N	275	128.340	20.242	93.808	1.00127.08
ATOM	25490	N	PHE	N	276	129.729	19.635	90.934	1.00126.36
ATOM	25491	CA	PHE	N	276	129.201	19.762	89.580	1.00125.18
ATOM	25492	C	PHE	N	276	127.689	19.593	89.570	1.00123.94
ATOM	25493	O	PHE	N	276	127.138	18.767	90.300	1.00124.34
ATOM	25494	CB	PHE	N	276	129.819	18.713	88.653	1.00124.36
ATOM	25495	CG	PHE	N	276	131.125	19.127	88.048	1.00124.21
ATOM	25496	CD1	PHE	N	276	132.221	19.421	88.854	1.00124.74
ATOM	25497	CD2	PHE	N	276	131.264	19.209	86.665	1.00123.70
ATOM	25498	CE1	PHE	N	276	133.439	19.789	88.289	1.00124.67
ATOM	25499	CE2	PHE	N	276	132.478	19.577	86.089	1.00123.33
ATOM	25500	CZ	PHE	N	276	133.568	19.867	86.901	1.00123.94
ATOM	25501	N	VAL	N	277	127.023	20.384	88.738	1.00121.66
ATOM	25502	CA	VAL	N	277	125.578	20.316	88.617	1.00118.90
ATOM	25503	C	VAL	N	277	125.283	19.930	87.167	1.00117.94
ATOM	25504	O	VAL	N	277	125.721	20.614	86.237	1.00117.08
ATOM	25505	CB	VAL	N	277	124.925	21.685	88.949	1.00117.94
ATOM	25506	CG1	VAL	N	277	123.414	21.543	89.007	1.00117.10
ATOM	25507	CG2	VAL	N	277	125.459	22.213	90.274	1.00115.44
ATOM	25508	N	TYR	N	278	124.565	18.824	86.977	1.00116.14
ATOM	25509	CA	TYR	N	278	124.231	18.359	85.633	1.00114.27
ATOM	25510	C	TYR	N	278	122.834	18.806	85.209	1.00113.68
ATOM	25511	O	TYR	N	278	122.030	19.234	86.038	1.00113.12
ATOM	25512	CB	TYR	N	278	124.310	16.828	85.548	1.00112.65
ATOM	25513	CG	TYR	N	278	125.652	16.222	85.907	1.00110.75
ATOM	25514	CD1	TYR	N	278	126.067	16.132	87.237	1.00111.35
ATOM	25515	CD2	TYR	N	278	126.496	15.711	84.920	1.00109.17
ATOM	25516	CE1	TYR	N	278	127.291	15.544	87.577	1.00110.35
ATOM	25517	CE2	TYR	N	278	127.720	15.124	85.248	1.00108.95
ATOM	25518	CZ	TYR	N	278	128.110	15.042	86.578	1.00109.26
ATOM	25519	OH	TYR	N	278	129.315	14.457	86.910	1.00107.05
ATOM	25520	N	GLN	N	279	122.558	18.700	83.910	1.00113.44
ATOM	25521	CA	GLN	N	279	121.264	19.080	83.351	1.00113.17
ATOM	25522	C	GLN	N	279	120.680	17.942	82.522	1.00113.78
ATOM	25523	O	GLN	N	279	119.502	17.600	82.750	1.00114.60
ATOM	25524	CB	GLN	N	279	121.394	20.319	82.464	1.00112.15
ATOM	25525	CG	GLN	N	279	120.059	20.815	81.928	1.00111.03
ATOM	25526	CD	GLN	N	279	120.209	21.818	80.801	1.00111.48
ATOM	25527	OE1	GLN	N	279	119.221	22.350	80.293	1.00111.79
ATOM	25528	NE2	GLN	N	279	121.447	22.076	80.400	1.00111.06
ATOM	25529	OXT	GLN	N	279	121.402	17.420	81.643	1.00113.58
ATOM	25530	N	GLY	O	1	79.185	0.542	35.754	1.00116.12
ATOM	25531	CA	GLY	O	1	79.397	1.703	34.863	1.00116.01
ATOM	25532	C	GLY	O	1	79.066	3.014	35.544	1.00116.79
ATOM	25533	O	GLY	O	1	77.920	3.252	35.934	1.00115.47
ATOM	25534	N	VAL	O	2	80.078	3.863	35.698	1.00118.24
ATOM	25535	CA	VAL	O	2	79.898	5.170	36.328	1.00119.49
ATOM	25536	C	VAL	O	2	80.095	6.251	35.255	1.00120.12
ATOM	25537	O	VAL	O	2	81.211	6.475	34.771	1.00119.15
ATOM	25538	CB	VAL	O	2	80.913	5.387	37.498	1.00119.10
ATOM	25539	CG1	VAL	O	2	80.564	6.657	38.270	1.00117.75
ATOM	25540	CG2	VAL	O	2	80.902	4.183	38.436	1.00117.60
ATOM	25541	N	ALA	O	3	78.997	6.907	34.881	1.00120.67
ATOM	25542	CA	ALA	O	3	79.027	7.949	33.858	1.00121.01

ATOM	25543	C	ALA	O	3	78.213	9.174	34.269	1.00121.23
ATOM	25544	O	ALA	O	3	77.068	9.336	33.847	1.00120.40
ATOM	25545	CB	ALA	O	3	78.495	7.390	32.543	1.00120.54
ATOM	25546	N	LEU	O	4	78.808	10.038	35.086	1.00122.21
ATOM	25547	CA	LEU	O	4	78.120	11.240	35.543	1.00122.72
ATOM	25548	C	LEU	O	4	77.425	11.963	34.400	1.00122.35
ATOM	25549	O	LEU	O	4	78.053	12.302	33.399	1.00122.59
ATOM	25550	CB	LEU	O	4	79.100	12.202	36.227	1.00124.08
ATOM	25551	CG	LEU	O	4	79.415	11.959	37.707	1.00125.77
ATOM	25552	CD1	LEU	O	4	80.381	13.026	38.210	1.00126.28
ATOM	25553	CD2	LEU	O	4	78.126	11.992	38.516	1.00125.71
ATOM	25554	N	GLY	O	5	76.124	12.192	34.556	1.00121.69
ATOM	25555	CA	GLY	O	5	75.370	12.891	33.534	1.00120.99
ATOM	25556	C	GLY	O	5	76.082	14.184	33.195	1.00120.53
ATOM	25557	O	GLY	O	5	75.884	14.759	32.120	1.00120.19
ATOM	25558	N	ALA	O	6	76.917	14.633	34.131	1.00119.84
ATOM	25559	CA	ALA	O	6	77.702	15.851	33.971	1.00118.79
ATOM	25560	C	ALA	O	6	79.183	15.556	34.185	1.00117.41
ATOM	25561	O	ALA	O	6	79.571	14.901	35.157	1.00116.77
ATOM	25562	CB	ALA	O	6	77.239	16.918	34.956	1.00118.30
ATOM	25563	N	THR	O	7	80.002	16.051	33.265	1.00115.54
ATOM	25564	CA	THR	O	7	81.443	15.864	33.320	1.00112.74
ATOM	25565	C	THR	O	7	82.146	17.184	33.647	1.00112.09
ATOM	25566	O	THR	O	7	83.356	17.224	33.865	1.00111.27
ATOM	25567	CB	THR	O	7	81.953	15.338	31.976	1.00111.22
ATOM	25568	OG1	THR	O	7	81.341	16.080	30.915	1.00110.04
ATOM	25569	CG2	THR	O	7	81.606	13.873	31.821	1.00109.11
ATOM	25570	N	ARG	O	8	81.366	18.259	33.691	1.00111.62
ATOM	25571	CA	ARG	O	8	81.887	19.590	33.971	1.00110.23
ATOM	25572	C	ARG	O	8	80.725	20.532	34.268	1.00109.95
ATOM	25573	O	ARG	O	8	79.922	20.830	33.385	1.00110.20
ATOM	25574	CB	ARG	O	8	82.675	20.081	32.758	1.00109.83
ATOM	25575	CG	ARG	O	8	81.894	20.004	31.453	1.00109.73
ATOM	25576	CD	ARG	O	8	82.784	19.717	30.245	1.00108.32
ATOM	25577	NE	ARG	O	8	83.789	20.751	30.025	1.00108.84
ATOM	25578	CZ	ARG	O	8	84.934	20.846	30.696	1.00109.84
ATOM	25579	NH1	ARG	O	8	85.244	19.953	31.630	1.00110.11
ATOM	25580	NH2	ARG	O	8	85.781	21.829	30.422	1.00110.20
ATOM	25581	N	VAL	O	9	80.645	20.999	35.513	1.00109.96
ATOM	25582	CA	VAL	O	9	79.570	21.895	35.947	1.00109.95
ATOM	25583	C	VAL	O	9	80.020	23.343	36.156	1.00110.45
ATOM	25584	O	VAL	O	9	81.164	23.601	36.535	1.00110.68
ATOM	25585	CB	VAL	O	9	78.935	21.391	37.268	1.00108.84
ATOM	25586	CG1	VAL	O	9	77.771	22.282	37.671	1.00107.75
ATOM	25587	CG2	VAL	O	9	78.477	19.955	37.105	1.00109.29
ATOM	25588	N	ILE	O	10	79.107	24.280	35.901	1.00110.90
ATOM	25589	CA	ILE	O	10	79.371	25.709	36.073	1.00111.55
ATOM	25590	C	ILE	O	10	78.518	26.221	37.229	1.00113.48
ATOM	25591	O	ILE	O	10	77.290	26.157	37.179	1.00113.96
ATOM	25592	CB	ILE	O	10	79.014	26.514	34.799	1.00109.19
ATOM	25593	CG1	ILE	O	10	79.955	26.126	33.654	1.00108.12
ATOM	25594	CG2	ILE	O	10	79.077	28.010	35.085	1.00105.79
ATOM	25595	CD1	ILE	O	10	81.412	26.457	33.898	1.00106.27
ATOM	25596	N	TYR	O	11	79.171	26.731	38.267	1.00114.97
ATOM	25597	CA	TYR	O	11	78.458	27.233	39.436	1.00117.12
ATOM	25598	C	TYR	O	11	78.250	28.747	39.383	1.00118.34
ATOM	25599	O	TYR	O	11	79.212	29.514	39.455	1.00118.57
ATOM	25600	CB	TYR	O	11	79.232	26.876	40.711	1.00117.92
ATOM	25601	CG	TYR	O	11	78.425	26.971	41.992	1.00118.20
ATOM	25602	CD1	TYR	O	11	77.558	25.947	42.369	1.00118.00
ATOM	25603	CD2	TYR	O	11	78.536	28.080	42.832	1.00118.65
ATOM	25604	CE1	TYR	O	11	76.822	26.020	43.551	1.00118.82

ATOM	25605	CE2	TYR	O	11	77.804	28.164	44.018	1.00119.45
ATOM	25606	CZ	TYR	O	11	76.951	27.129	44.371	1.00119.52
ATOM	25607	OH	TYR	O	11	76.237	27.199	45.546	1.00119.00
ATOM	25608	N	PRO	O	12	76.991	29.195	39.234	1.00119.30
ATOM	25609	CA	PRO	O	12	76.702	30.634	39.187	1.00120.72
ATOM	25610	C	PRO	O	12	77.031	31.290	40.539	1.00122.22
ATOM	25611	O	PRO	O	12	77.337	30.597	41.514	1.00123.76
ATOM	25612	CB	PRO	O	12	75.208	30.671	38.869	1.00119.76
ATOM	25613	CG	PRO	O	12	75.016	29.443	38.037	1.00118.11
ATOM	25614	CD	PRO	O	12	75.817	28.415	38.799	1.00118.77
ATOM	25615	N	ALA	O	13	76.969	32.617	40.604	1.00122.39
ATOM	25616	CA	ALA	O	13	77.269	33.319	41.849	1.00122.44
ATOM	25617	C	ALA	O	13	76.001	33.616	42.641	1.00122.49
ATOM	25618	O	ALA	O	13	74.930	33.797	42.066	1.00122.27
ATOM	25619	CB	ALA	O	13	78.013	34.613	41.552	1.00123.35
ATOM	25620	N	GLY	O	14	76.130	33.667	43.963	1.00122.74
ATOM	25621	CA	GLY	O	14	74.981	33.941	44.806	1.00122.49
ATOM	25622	C	GLY	O	14	73.948	32.832	44.739	1.00122.56
ATOM	25623	O	GLY	O	14	72.780	33.044	45.067	1.00122.73
ATOM	25624	N	GLN	O	15	74.380	31.649	44.309	1.00122.23
ATOM	25625	CA	GLN	O	15	73.497	30.492	44.198	1.00121.96
ATOM	25626	C	GLN	O	15	73.621	29.569	45.398	1.00122.36
ATOM	25627	O	GLN	O	15	74.673	29.499	46.034	1.00121.94
ATOM	25628	CB	GLN	O	15	73.804	29.706	42.922	1.00121.12
ATOM	25629	CG	GLN	O	15	72.937	30.094	41.740	1.00121.10
ATOM	25630	CD	GLN	O	15	71.490	29.665	41.916	1.00121.13
ATOM	25631	OE1	GLN	O	15	70.866	29.942	42.942	1.00121.19
ATOM	25632	NE2	GLN	O	15	70.948	28.990	40.910	1.00120.92
ATOM	25633	N	LYS	O	16	72.538	28.859	45.699	1.00122.89
ATOM	25634	CA	LYS	O	16	72.514	27.932	46.826	1.00123.02
ATOM	25635	C	LYS	O	16	72.945	26.535	46.386	1.00123.48
ATOM	25636	O	LYS	O	16	74.070	26.110	46.653	1.00124.09
ATOM	25637	CB	LYS	O	16	71.107	27.879	47.437	1.00121.68
ATOM	25638	CG	LYS	O	16	70.929	26.853	48.551	1.00118.92
ATOM	25639	CD	LYS	O	16	69.477	26.800	49.013	1.00117.14
ATOM	25640	CE	LYS	O	16	69.243	25.675	50.008	1.00116.09
ATOM	25641	NZ	LYS	O	16	67.827	25.618	50.463	1.00115.62
ATOM	25642	N	GLN	O	17	72.051	25.828	45.702	1.00123.38
ATOM	25643	CA	GLN	O	17	72.346	24.479	45.244	1.00123.04
ATOM	25644	C	GLN	O	17	72.330	24.330	43.727	1.00123.22
ATOM	25645	O	GLN	O	17	71.584	25.012	43.027	1.00123.29
ATOM	25646	CB	GLN	O	17	71.356	23.483	45.866	1.00122.14
ATOM	25647	CG	GLN	O	17	69.888	23.800	45.611	1.00120.01
ATOM	25648	CD	GLN	O	17	68.956	22.704	46.100	1.00118.43
ATOM	25649	OE1	GLN	O	17	69.037	22.276	47.249	1.00117.61
ATOM	25650	NE2	GLN	O	17	68.062	22.250	45.227	1.00117.27
ATOM	25651	N	VAL	O	18	73.174	23.429	43.235	1.00123.32
ATOM	25652	CA	VAL	O	18	73.274	23.136	41.812	1.00124.15
ATOM	25653	C	VAL	O	18	73.169	21.621	41.661	1.00124.99
ATOM	25654	O	VAL	O	18	74.163	20.908	41.795	1.00126.32
ATOM	25655	CB	VAL	O	18	74.624	23.619	41.230	1.00123.40
ATOM	25656	CG1	VAL	O	18	74.767	23.172	39.783	1.00123.02
ATOM	25657	CG2	VAL	O	18	74.702	25.128	41.310	1.00123.18
ATOM	25658	N	GLN	O	19	71.960	21.136	41.392	1.00124.93
ATOM	25659	CA	GLN	O	19	71.719	19.703	41.243	1.00124.23
ATOM	25660	C	GLN	O	19	72.474	19.043	40.088	1.00124.58
ATOM	25661	O	GLN	O	19	72.980	19.710	39.182	1.00124.82
ATOM	25662	CB	GLN	O	19	70.222	19.428	41.071	1.00123.03
ATOM	25663	CG	GLN	O	19	69.351	19.884	42.227	1.00122.92
ATOM	25664	CD	GLN	O	19	67.911	19.413	42.091	1.00123.61
ATOM	25665	OE1	GLN	O	19	67.044	19.786	42.885	1.00123.31
ATOM	25666	NE2	GLN	O	19	67.651	18.582	41.083	1.00123.44

ATOM	25667	N	LEU	O	20	72.539	17.717	40.143	1.00124.44
ATOM	25668	CA	LEU	O	20	73.196	16.907	39.124	1.00123.82
ATOM	25669	C	LEU	O	20	72.875	15.437	39.357	1.00123.60
ATOM	25670	O	LEU	O	20	72.994	14.934	40.471	1.00123.00
ATOM	25671	CB	LEU	O	20	74.711	17.111	39.149	1.00123.72
ATOM	25672	CG	LEU	O	20	75.471	16.118	38.261	1.00124.46
ATOM	25673	CD1	LEU	O	20	74.851	16.105	36.874	1.00125.73
ATOM	25674	CD2	LEU	O	20	76.945	16.486	38.199	1.00124.30
ATOM	25675	N	ALA	O	21	72.475	14.753	38.293	1.00123.86
ATOM	25676	CA	ALA	O	21	72.115	13.347	38.379	1.00124.37
ATOM	25677	C	ALA	O	21	73.313	12.417	38.501	1.00124.44
ATOM	25678	O	ALA	O	21	74.422	12.744	38.079	1.00123.77
ATOM	25679	CB	ALA	O	21	71.278	12.954	37.168	1.00125.31
ATOM	25680	N	VAL	O	22	73.064	11.252	39.090	1.00124.61
ATOM	25681	CA	VAL	O	22	74.082	10.229	39.276	1.00124.99
ATOM	25682	C	VAL	O	22	73.428	8.896	38.931	1.00125.25
ATOM	25683	O	VAL	O	22	72.612	8.381	39.695	1.00124.92
ATOM	25684	CB	VAL	O	22	74.580	10.183	40.741	1.00125.34
ATOM	25685	CG1	VAL	O	22	75.739	9.202	40.866	1.00125.00
ATOM	25686	CG2	VAL	O	22	75.006	11.572	41.193	1.00123.81
ATOM	25687	N	THR	O	23	73.775	8.350	37.769	1.00125.76
ATOM	25688	CA	THR	O	23	73.213	7.079	37.319	1.00126.35
ATOM	25689	C	THR	O	23	74.182	5.929	37.553	1.00128.61
ATOM	25690	O	THR	O	23	75.376	6.140	37.769	1.00129.39
ATOM	25691	CB	THR	O	23	72.875	7.118	35.814	1.00123.79
ATOM	25692	OG1	THR	O	23	72.019	8.232	35.544	1.00121.54
ATOM	25693	CG2	THR	O	23	72.176	5.838	35.390	1.00120.96
ATOM	25694	N	ASN	O	24	73.659	4.711	37.512	1.00130.32
ATOM	25695	CA	ASN	O	24	74.478	3.528	37.698	1.00132.73
ATOM	25696	C	ASN	O	24	74.212	2.584	36.537	1.00133.96
ATOM	25697	O	ASN	O	24	73.203	1.886	36.524	1.00133.72
ATOM	25698	CB	ASN	O	24	74.130	2.846	39.020	1.00133.96
ATOM	25699	CG	ASN	O	24	74.985	1.622	39.283	1.00136.75
ATOM	25700	OD1	ASN	O	24	76.219	1.690	39.254	1.00138.97
ATOM	25701	ND2	ASN	O	24	74.336	0.494	39.545	1.00136.48
ATOM	25702	N	ASN	O	25	75.113	2.569	35.559	1.00135.72
ATOM	25703	CA	ASN	O	25	74.948	1.707	34.392	1.00137.03
ATOM	25704	C	ASN	O	25	75.047	0.222	34.749	1.00138.50
ATOM	25705	O	ASN	O	25	74.777	-0.642	33.913	1.00138.94
ATOM	25706	CB	ASN	O	25	75.988	2.048	33.324	1.00135.31
ATOM	25707	CG	ASN	O	25	75.665	1.424	31.985	1.00133.96
ATOM	25708	OD1	ASN	O	25	74.661	1.764	31.358	1.00132.97
ATOM	25709	ND2	ASN	O	25	76.509	0.500	31.541	1.00132.76
ATOM	25710	N	ASP	O	26	75.443	-0.068	35.988	1.00140.13
ATOM	25711	CA	ASP	O	26	75.561	-1.447	36.463	1.00141.32
ATOM	25712	C	ASP	O	26	74.147	-1.972	36.716	1.00141.78
ATOM	25713	O	ASP	O	26	73.465	-1.498	37.626	1.00141.87
ATOM	25714	CB	ASP	O	26	76.364	-1.507	37.775	1.00141.82
ATOM	25715	CG	ASP	O	26	77.811	-1.052	37.612	1.00142.34
ATOM	25716	OD1	ASP	O	26	78.576	-1.726	36.886	1.00142.31
ATOM	25717	OD2	ASP	O	26	78.185	-0.020	38.215	1.00141.44
ATOM	25718	N	GLU	O	27	73.709	-2.941	35.914	1.00142.26
ATOM	25719	CA	GLU	O	27	72.370	-3.515	36.060	1.00142.38
ATOM	25720	C	GLU	O	27	72.004	-3.825	37.510	1.00142.43
ATOM	25721	O	GLU	O	27	71.108	-3.200	38.082	1.00142.37
ATOM	25722	CB	GLU	O	27	72.239	-4.791	35.218	1.00142.19
ATOM	25723	CG	GLU	O	27	71.923	-4.548	33.747	1.00142.03
ATOM	25724	CD	GLU	O	27	70.535	-3.960	33.531	1.00141.59
ATOM	25725	OE1	GLU	O	27	70.242	-2.887	34.101	1.00140.73
ATOM	25726	OE2	GLU	O	27	69.736	-4.568	32.786	1.00141.00
ATOM	25727	N	ASN	O	28	72.700	-4.791	38.099	1.00142.36
ATOM	25728	CA	ASN	O	28	72.444	-5.188	39.478	1.00142.33

ATOM	25729	C	ASN	O	28	73.702	-5.127	40.342	1.00142.17
ATOM	25730	O	ASN	O	28	74.657	-5.873	40.120	1.00142.61
ATOM	25731	CB	ASN	O	28	71.857	-6.603	39.509	1.00142.90
ATOM	25732	CG	ASN	O	28	72.681	-7.600	38.708	1.00143.60
ATOM	25733	OD1	ASN	O	28	72.336	-8.781	38.624	1.00143.21
ATOM	25734	ND2	ASN	O	28	73.774	-7.130	38.115	1.00143.81
ATOM	25735	N	SER	O	29	73.689	-4.232	41.327	1.00141.26
ATOM	25736	CA	SER	O	29	74.819	-4.054	42.234	1.00139.90
ATOM	25737	C	SER	O	29	74.598	-2.843	43.131	1.00139.74
ATOM	25738	O	SER	O	29	74.020	-1.841	42.703	1.00139.12
ATOM	25739	CB	SER	O	29	76.117	-3.872	41.440	1.00139.67
ATOM	25740	OG	SER	O	29	75.993	-2.831	40.486	1.00138.43
ATOM	25741	N	THR	O	30	75.061	-2.938	44.374	1.00139.97
ATOM	25742	CA	THR	O	30	74.916	-1.842	45.329	1.00140.22
ATOM	25743	C	THR	O	30	76.264	-1.211	45.676	1.00140.73
ATOM	25744	O	THR	O	30	77.260	-1.911	45.886	1.00141.04
ATOM	25745	CB	THR	O	30	74.260	-2.311	46.646	1.00139.26
ATOM	25746	OG1	THR	O	30	73.047	-3.012	46.356	1.00139.35
ATOM	25747	CG2	THR	O	30	73.936	-1.115	47.533	1.00138.40
ATOM	25748	N	TYR	O	31	76.282	0.118	45.731	1.00140.36
ATOM	25749	CA	TYR	O	31	77.487	0.867	46.063	1.00139.44
ATOM	25750	C	TYR	O	31	77.118	1.965	47.050	1.00139.81
ATOM	25751	O	TYR	O	31	76.210	2.754	46.790	1.00140.53
ATOM	25752	CB	TYR	O	31	78.093	1.507	44.812	1.00137.61
ATOM	25753	CG	TYR	O	31	78.243	0.567	43.643	1.00136.79
ATOM	25754	CD1	TYR	O	31	77.162	0.280	42.814	1.00136.15
ATOM	25755	CD2	TYR	O	31	79.463	-0.050	43.373	1.00136.74
ATOM	25756	CE1	TYR	O	31	77.288	-0.599	41.744	1.00137.08
ATOM	25757	CE2	TYR	O	31	79.602	-0.934	42.306	1.00137.28
ATOM	25758	CZ	TYR	O	31	78.509	-1.205	41.494	1.00137.41
ATOM	25759	OH	TYR	O	31	78.633	-2.084	40.440	1.00136.98
ATOM	25760	N	LEU	O	32	77.814	2.006	48.183	1.00139.86
ATOM	25761	CA	LEU	O	32	77.565	3.022	49.201	1.00139.05
ATOM	25762	C	LEU	O	32	77.927	4.388	48.619	1.00138.76
ATOM	25763	O	LEU	O	32	78.923	4.997	49.013	1.00138.84
ATOM	25764	CB	LEU	O	32	78.412	2.740	50.447	1.00138.83
ATOM	25765	CG	LEU	O	32	78.125	1.457	51.235	1.00138.54
ATOM	25766	CD1	LEU	O	32	79.192	1.261	52.299	1.00138.44
ATOM	25767	CD2	LEU	O	32	76.746	1.537	51.872	1.00138.23
ATOM	25768	N	ILE	O	33	77.110	4.854	47.677	1.00138.35
ATOM	25769	CA	ILE	O	33	77.321	6.132	47.008	1.00137.56
ATOM	25770	C	ILE	O	33	77.811	7.200	47.975	1.00138.32
ATOM	25771	O	ILE	O	33	77.322	7.311	49.102	1.00138.21
ATOM	25772	CB	ILE	O	33	76.030	6.633	46.336	1.00136.35
ATOM	25773	CG1	ILE	O	33	75.360	5.488	45.575	1.00135.33
ATOM	25774	CG2	ILE	O	33	76.355	7.767	45.379	1.00135.33
ATOM	25775	CD1	ILE	O	33	76.219	4.884	44.484	1.00136.00
ATOM	25776	N	GLN	O	34	78.782	7.984	47.523	1.00138.84
ATOM	25777	CA	GLN	O	34	79.358	9.036	48.346	1.00139.05
ATOM	25778	C	GLN	O	34	79.785	10.191	47.451	1.00139.12
ATOM	25779	O	GLN	O	34	80.530	10.002	46.487	1.00138.87
ATOM	25780	CB	GLN	O	34	80.559	8.477	49.112	1.00139.15
ATOM	25781	CG	GLN	O	34	81.032	9.325	50.271	1.00138.23
ATOM	25782	CD	GLN	O	34	82.021	8.580	51.144	1.00137.81
ATOM	25783	OE1	GLN	O	34	83.072	8.139	50.676	1.00137.07
ATOM	25784	NE2	GLN	O	34	81.686	8.429	52.421	1.00137.68
ATOM	25785	N	SER	O	35	79.301	11.386	47.771	1.00139.09
ATOM	25786	CA	SER	O	35	79.622	12.574	46.992	1.00138.93
ATOM	25787	C	SER	O	35	80.231	13.684	47.852	1.00138.17
ATOM	25788	O	SER	O	35	79.862	13.857	49.015	1.00137.88
ATOM	25789	CB	SER	O	35	78.360	13.080	46.281	1.00139.36
ATOM	25790	OG	SER	O	35	77.275	13.205	47.187	1.00139.06

ATOM	25791	N	TRP	O	36	81.167	14.431	47.269	1.00137.28
ATOM	25792	CA	TRP	O	36	81.834	15.520	47.973	1.00135.87
ATOM	25793	C	TRP	O	36	82.670	16.365	47.010	1.00133.79
ATOM	25794	O	TRP	O	36	83.035	15.912	45.923	1.00132.91
ATOM	25795	CB	TRP	O	36	82.736	14.950	49.071	1.00138.77
ATOM	25796	CG	TRP	O	36	83.928	14.196	48.537	1.00142.58
ATOM	25797	CD1	TRP	O	36	85.104	14.731	48.079	1.00143.70
ATOM	25798	CD2	TRP	O	36	84.041	12.778	48.367	1.00143.76
ATOM	25799	NE1	TRP	O	36	85.939	13.734	47.634	1.00144.53
ATOM	25800	CE2	TRP	O	36	85.313	12.526	47.799	1.00144.74
ATOM	25801	CE3	TRP	O	36	83.193	11.695	48.637	1.00143.86
ATOM	25802	CZ2	TRP	O	36	85.755	11.233	47.496	1.00145.19
ATOM	25803	CZ3	TRP	O	36	83.633	10.409	48.336	1.00144.32
ATOM	25804	CH2	TRP	O	36	84.904	10.191	47.771	1.00145.15
ATOM	25805	N	VAL	O	37	82.969	17.593	47.421	1.00131.77
ATOM	25806	CA	VAL	O	37	83.768	18.512	46.616	1.00129.63
ATOM	25807	C	VAL	O	37	85.063	18.835	47.352	1.00129.00
ATOM	25808	O	VAL	O	37	85.093	18.872	48.582	1.00129.29
ATOM	25809	CB	VAL	O	37	83.013	19.834	46.356	1.00128.66
ATOM	25810	CG1	VAL	O	37	83.847	20.748	45.468	1.00127.41
ATOM	25811	CG2	VAL	O	37	81.669	19.544	45.713	1.00128.43
ATOM	25812	N	GLU	O	38	86.132	19.070	46.600	1.00127.95
ATOM	25813	CA	GLU	O	38	87.427	19.389	47.193	1.00126.74
ATOM	25814	C	GLU	O	38	87.745	20.875	46.982	1.00126.74
ATOM	25815	O	GLU	O	38	87.061	21.745	47.527	1.00127.51
ATOM	25816	CB	GLU	O	38	88.511	18.502	46.565	1.00125.65
ATOM	25817	CG	GLU	O	38	88.156	17.011	46.559	1.00123.43
ATOM	25818	CD	GLU	O	38	89.176	16.148	45.832	1.00121.51
ATOM	25819	OE1	GLU	O	38	89.526	16.474	44.677	1.00120.01
ATOM	25820	OE2	GLU	O	38	89.618	15.134	46.415	1.00119.28
ATOM	25821	N	ASN	O	39	88.781	21.158	46.196	1.00125.87
ATOM	25822	CA	ASN	O	39	89.190	22.531	45.894	1.00124.03
ATOM	25823	C	ASN	O	39	90.180	22.506	44.725	1.00123.34
ATOM	25824	O	ASN	O	39	90.570	21.433	44.263	1.00122.76
ATOM	25825	CB	ASN	O	39	89.812	23.195	47.139	1.00123.14
ATOM	25826	CG	ASN	O	39	91.324	23.365	47.039	1.00122.33
ATOM	25827	OD1	ASN	O	39	92.070	22.393	46.925	1.00121.93
ATOM	25828	ND2	ASN	O	39	91.779	24.612	47.093	1.00121.82
ATOM	25829	N	ALA	O	40	90.575	23.678	44.239	1.00122.58
ATOM	25830	CA	ALA	O	40	91.506	23.760	43.114	1.00121.37
ATOM	25831	C	ALA	O	40	92.743	22.891	43.322	1.00120.65
ATOM	25832	O	ALA	O	40	93.245	22.278	42.379	1.00120.37
ATOM	25833	CB	ALA	O	40	91.921	25.208	42.881	1.00122.30
ATOM	25834	N	ASP	O	41	93.232	22.847	44.558	1.00120.16
ATOM	25835	CA	ASP	O	41	94.409	22.056	44.892	1.00119.25
ATOM	25836	C	ASP	O	41	93.995	20.680	45.387	1.00120.10
ATOM	25837	O	ASP	O	41	94.712	20.038	46.156	1.00120.29
ATOM	25838	CB	ASP	O	41	95.238	22.768	45.959	1.00116.53
ATOM	25839	CG	ASP	O	41	95.709	24.134	45.507	1.00114.19
ATOM	25840	OD1	ASP	O	41	94.853	25.007	45.255	1.00112.74
ATOM	25841	OD2	ASP	O	41	96.935	24.336	45.400	1.00113.67
ATOM	25842	N	GLY	O	42	92.823	20.241	44.937	1.00121.08
ATOM	25843	CA	GLY	O	42	92.303	18.940	45.316	1.00122.53
ATOM	25844	C	GLY	O	42	92.259	18.673	46.808	1.00123.31
ATOM	25845	O	GLY	O	42	92.665	17.603	47.256	1.00123.85
ATOM	25846	N	VAL	O	43	91.766	19.636	47.580	1.00124.19
ATOM	25847	CA	VAL	O	43	91.676	19.474	49.026	1.00125.04
ATOM	25848	C	VAL	O	43	90.234	19.574	49.506	1.00125.93
ATOM	25849	O	VAL	O	43	89.566	20.585	49.288	1.00125.54
ATOM	25850	CB	VAL	O	43	92.511	20.540	49.764	1.00124.73
ATOM	25851	CG1	VAL	O	43	92.383	20.346	51.269	1.00124.97
ATOM	25852	CG2	VAL	O	43	93.966	20.451	49.332	1.00123.43

ATOM	25853	N	LYS	O	44	89.754	18.520	50.158	1.00127.30
ATOM	25854	CA	LYS	O	44	88.390	18.516	50.664	1.00128.36
ATOM	25855	C	LYS	O	44	88.337	19.357	51.931	1.00129.24
ATOM	25856	O	LYS	O	44	89.357	19.572	52.588	1.00128.31
ATOM	25857	CB	LYS	O	44	87.921	17.091	50.969	1.00127.54
ATOM	25858	CG	LYS	O	44	88.471	16.506	52.259	1.00127.14
ATOM	25859	CD	LYS	O	44	87.690	15.273	52.658	1.00126.53
ATOM	25860	CE	LYS	O	44	87.929	14.106	51.717	1.00126.98
ATOM	25861	NZ	LYS	O	44	89.249	13.471	51.969	1.00127.99
ATOM	25862	N	ASP	O	45	87.142	19.835	52.263	1.00131.11
ATOM	25863	CA	ASP	O	45	86.949	20.666	53.444	1.00133.28
ATOM	25864	C	ASP	O	45	85.475	20.998	53.701	1.00134.56
ATOM	25865	O	ASP	O	45	84.788	20.285	54.439	1.00134.42
ATOM	25866	CB	ASP	O	45	87.763	21.958	53.300	1.00133.82
ATOM	25867	CG	ASP	O	45	88.233	22.198	51.873	1.00133.96
ATOM	25868	OD1	ASP	O	45	87.376	22.385	50.982	1.00134.24
ATOM	25869	OD2	ASP	O	45	89.463	22.190	51.644	1.00133.90
ATOM	25870	N	GLY	O	46	84.997	22.083	53.095	1.00135.59
ATOM	25871	CA	GLY	O	46	83.613	22.484	53.276	1.00136.31
ATOM	25872	C	GLY	O	46	83.233	23.713	52.473	1.00137.08
ATOM	25873	O	GLY	O	46	82.147	24.268	52.654	1.00137.19
ATOM	25874	N	ARG	O	47	84.125	24.142	51.583	1.00137.73
ATOM	25875	CA	ARG	O	47	83.871	25.313	50.745	1.00138.00
ATOM	25876	C	ARG	O	47	82.781	25.014	49.726	1.00138.09
ATOM	25877	O	ARG	O	47	82.546	25.796	48.805	1.00138.03
ATOM	25878	CB	ARG	O	47	85.143	25.740	50.008	1.00137.55
ATOM	25879	CG	ARG	O	47	85.604	27.142	50.358	1.00136.77
ATOM	25880	CD	ARG	O	47	86.291	27.174	51.714	1.00137.02
ATOM	25881	NE	ARG	O	47	86.318	28.519	52.283	1.00135.47
ATOM	25882	CZ	ARG	O	47	85.303	29.073	52.938	1.00133.77
ATOM	25883	NH1	ARG	O	47	84.176	28.395	53.115	1.00132.20
ATOM	25884	NH2	ARG	O	47	85.412	30.307	53.409	1.00132.42
ATOM	25885	N	PHE	O	48	82.127	23.873	49.904	1.00138.39
ATOM	25886	CA	PHE	O	48	81.056	23.422	49.022	1.00138.70
ATOM	25887	C	PHE	O	48	80.466	22.139	49.601	1.00138.97
ATOM	25888	O	PHE	O	48	81.186	21.166	49.837	1.00139.71
ATOM	25889	CB	PHE	O	48	81.602	23.154	47.611	1.00138.43
ATOM	25890	CG	PHE	O	48	81.267	24.226	46.604	1.00136.83
ATOM	25891	CD1	PHE	O	48	80.330	25.214	46.894	1.00136.37
ATOM	25892	CD2	PHE	O	48	81.888	24.239	45.359	1.00135.99
ATOM	25893	CE1	PHE	O	48	80.016	26.196	45.958	1.00135.88
ATOM	25894	CE2	PHE	O	48	81.581	25.217	44.416	1.00135.54
ATOM	25895	CZ	PHE	O	48	80.645	26.198	44.717	1.00135.76
ATOM	25896	N	ILE	O	49	79.159	22.143	49.836	1.00138.33
ATOM	25897	CA	ILE	O	49	78.484	20.977	50.389	1.00137.96
ATOM	25898	C	ILE	O	49	77.757	20.201	49.292	1.00138.55
ATOM	25899	O	ILE	O	49	77.388	20.763	48.260	1.00138.03
ATOM	25900	CB	ILE	O	49	77.480	21.394	51.508	1.00136.71
ATOM	25901	CG1	ILE	O	49	78.240	21.749	52.790	1.00135.54
ATOM	25902	CG2	ILE	O	49	76.508	20.261	51.809	1.00136.23
ATOM	25903	CD1	ILE	O	49	79.230	22.884	52.647	1.00134.78
ATOM	25904	N	VAL	O	50	77.578	18.903	49.518	1.00139.50
ATOM	25905	CA	VAL	O	50	76.893	18.034	48.568	1.00139.76
ATOM	25906	C	VAL	O	50	75.763	17.293	49.276	1.00139.56
ATOM	25907	O	VAL	O	50	75.947	16.756	50.370	1.00139.51
ATOM	25908	CB	VAL	O	50	77.858	16.995	47.954	1.00140.15
ATOM	25909	CG1	VAL	O	50	77.125	16.153	46.921	1.00139.54
ATOM	25910	CG2	VAL	O	50	79.050	17.700	47.320	1.00140.81
ATOM	25911	N	THR	O	51	74.594	17.274	48.645	1.00139.42
ATOM	25912	CA	THR	O	51	73.429	16.606	49.208	1.00139.90
ATOM	25913	C	THR	O	51	72.544	16.040	48.099	1.00140.12
ATOM	25914	O	THR	O	51	72.199	16.744	47.154	1.00139.70

ATOM	25915	CB	THR	O	51	72.594	17.583	50.071	1.00140.30
ATOM	25916	OG1	THR	O	51	72.318	18.774	49.322	1.00141.01
ATOM	25917	CG2	THR	O	51	73.348	17.955	51.341	1.00139.70
ATOM	25918	N	PRO	O	52	72.175	14.751	48.192	1.00140.97
ATOM	25919	CA	PRO	O	52	72.514	13.784	49.246	1.00141.69
ATOM	25920	C	PRO	O	52	73.994	13.377	49.241	1.00142.28
ATOM	25921	O	PRO	O	52	74.523	12.920	48.225	1.00142.28
ATOM	25922	CB	PRO	O	52	71.582	12.614	48.947	1.00141.65
ATOM	25923	CG	PRO	O	52	71.457	12.670	47.457	1.00141.13
ATOM	25924	CD	PRO	O	52	71.275	14.142	47.196	1.00140.95
ATOM	25925	N	PRO	O	53	74.675	13.530	50.391	1.00142.55
ATOM	25926	CA	PRO	O	53	76.096	13.196	50.551	1.00142.36
ATOM	25927	C	PRO	O	53	76.436	11.716	50.373	1.00142.06
ATOM	25928	O	PRO	O	53	77.284	11.359	49.552	1.00141.22
ATOM	25929	CB	PRO	O	53	76.408	13.704	51.958	1.00142.56
ATOM	25930	CG	PRO	O	53	75.112	13.491	52.678	1.00142.67
ATOM	25931	CD	PRO	O	53	74.097	13.981	51.671	1.00142.74
ATOM	25932	N	LEU	O	54	75.775	10.864	51.150	1.00142.26
ATOM	25933	CA	LEU	O	54	76.001	9.423	51.087	1.00142.46
ATOM	25934	C	LEU	O	54	74.671	8.671	51.128	1.00142.59
ATOM	25935	O	LEU	O	54	73.824	8.931	51.984	1.00143.07
ATOM	25936	CB	LEU	O	54	76.903	8.984	52.253	1.00141.30
ATOM	25937	CG	LEU	O	54	77.185	7.493	52.475	1.00139.81
ATOM	25938	CD1	LEU	O	54	78.441	7.332	53.311	1.00139.01
ATOM	25939	CD2	LEU	O	54	76.001	6.833	53.163	1.00139.25
ATOM	25940	N	PHE	O	55	74.495	7.741	50.194	1.00142.12
ATOM	25941	CA	PHE	O	55	73.272	6.951	50.116	1.00141.83
ATOM	25942	C	PHE	O	55	73.520	5.644	49.370	1.00141.57
ATOM	25943	O	PHE	O	55	74.527	5.509	48.675	1.00142.09
ATOM	25944	CB	PHE	O	55	72.169	7.759	49.417	1.00142.14
ATOM	25945	CG	PHE	O	55	72.524	8.216	48.018	1.00142.34
ATOM	25946	CD1	PHE	O	55	72.644	7.303	46.972	1.00142.25
ATOM	25947	CD2	PHE	O	55	72.706	9.568	47.742	1.00142.51
ATOM	25948	CE1	PHE	O	55	72.934	7.731	45.674	1.00141.57
ATOM	25949	CE2	PHE	O	55	72.997	10.003	46.446	1.00142.11
ATOM	25950	CZ	PHE	O	55	73.110	9.083	45.412	1.00141.80
ATOM	25951	N	ALA	O	56	72.607	4.685	49.515	1.00140.93
ATOM	25952	CA	ALA	O	56	72.737	3.395	48.836	1.00140.15
ATOM	25953	C	ALA	O	56	71.978	3.395	47.505	1.00139.31
ATOM	25954	O	ALA	O	56	70.775	3.651	47.466	1.00138.18
ATOM	25955	CB	ALA	O	56	72.225	2.272	49.739	1.00139.94
ATOM	25956	N	MET	O	57	72.688	3.110	46.418	1.00138.83
ATOM	25957	CA	MET	O	57	72.077	3.090	45.094	1.00138.93
ATOM	25958	C	MET	O	57	71.950	1.689	44.512	1.00138.99
ATOM	25959	O	MET	O	57	72.467	1.406	43.427	1.00138.45
ATOM	25960	CB	MET	O	57	72.877	3.963	44.131	1.00139.42
ATOM	25961	CG	MET	O	57	72.184	5.254	43.749	1.00140.23
ATOM	25962	SD	MET	O	57	73.193	6.274	42.660	1.00141.57
ATOM	25963	CE	MET	O	57	73.073	5.345	41.110	1.00140.44
ATOM	25964	N	LYS	O	58	71.253	0.819	45.239	1.00139.32
ATOM	25965	CA	LYS	O	58	71.040	-0.558	44.804	1.00139.24
ATOM	25966	C	LYS	O	58	70.678	-0.633	43.325	1.00138.96
ATOM	25967	O	LYS	O	58	70.107	0.305	42.765	1.00138.16
ATOM	25968	CB	LYS	O	58	69.930	-1.212	45.634	1.00139.23
ATOM	25969	CG	LYS	O	58	70.416	-1.922	46.889	1.00139.39
ATOM	25970	CD	LYS	O	58	69.993	-3.390	46.881	1.00139.98
ATOM	25971	CE	LYS	O	58	70.476	-4.106	45.618	1.00140.75
ATOM	25972	NZ	LYS	O	58	70.080	-5.542	45.570	1.00140.97
ATOM	25973	N	GLY	O	59	71.014	-1.757	42.700	1.00138.93
ATOM	25974	CA	GLY	O	59	70.718	-1.928	41.291	1.00138.28
ATOM	25975	C	GLY	O	59	71.317	-0.804	40.472	1.00137.79
ATOM	25976	O	GLY	O	59	72.474	-0.432	40.674	1.00137.41

ATOM	25977	N	LYS	O	60	70.520	-0.249	39.563	1.00137.17
ATOM	25978	CA	LYS	O	60	70.977	0.830	38.694	1.00136.77
ATOM	25979	C	LYS	O	60	70.088	2.081	38.711	1.00137.10
ATOM	25980	O	LYS	O	60	69.816	2.670	37.662	1.00137.04
ATOM	25981	CB	LYS	O	60	71.118	0.298	37.258	1.00135.63
ATOM	25982	CG	LYS	O	60	69.888	-0.418	36.707	1.00132.55
ATOM	25983	CD	LYS	O	60	69.034	0.501	35.846	1.00129.64
ATOM	25984	CE	LYS	O	60	69.701	0.792	34.511	1.00127.30
ATOM	25985	NZ	LYS	O	60	69.811	-0.428	33.662	1.00123.49
ATOM	25986	N	LYS	O	61	69.647	2.493	39.899	1.00137.36
ATOM	25987	CA	LYS	O	61	68.800	3.679	40.025	1.00137.10
ATOM	25988	C	LYS	O	61	69.523	4.916	39.515	1.00137.72
ATOM	25989	O	LYS	O	61	70.713	4.872	39.207	1.00138.22
ATOM	25990	CB	LYS	O	61	68.383	3.915	41.484	1.00136.46
ATOM	25991	CG	LYS	O	61	67.353	2.930	42.031	1.00135.74
ATOM	25992	CD	LYS	O	61	66.193	3.650	42.723	1.00134.07
ATOM	25993	CE	LYS	O	61	66.667	4.531	43.872	1.00132.94
ATOM	25994	NZ	LYS	O	61	65.542	5.281	44.502	1.00131.48
ATOM	25995	N	GLU	O	62	68.790	6.020	39.432	1.00138.43
ATOM	25996	CA	GLU	O	62	69.342	7.287	38.969	1.00139.07
ATOM	25997	C	GLU	O	62	68.971	8.343	40.002	1.00139.60
ATOM	25998	O	GLU	O	62	67.881	8.911	39.950	1.00140.63
ATOM	25999	CB	GLU	O	62	68.744	7.656	37.605	1.00138.32
ATOM	26000	CG	GLU	O	62	69.500	8.734	36.820	1.00138.16
ATOM	26001	CD	GLU	O	62	69.576	10.078	37.533	1.00137.62
ATOM	26002	OE1	GLU	O	62	70.315	10.188	38.538	1.00136.02
ATOM	26003	OE2	GLU	O	62	68.895	11.026	37.084	1.00137.08
ATOM	26004	N	ASN	O	63	69.873	8.601	40.943	1.00139.76
ATOM	26005	CA	ASN	O	63	69.612	9.585	41.985	1.00139.94
ATOM	26006	C	ASN	O	63	70.537	10.792	41.854	1.00140.09
ATOM	26007	O	ASN	O	63	71.756	10.674	42.001	1.00140.06
ATOM	26008	CB	ASN	O	63	69.774	8.935	43.361	1.00140.27
ATOM	26009	CG	ASN	O	63	68.877	7.718	43.539	1.00141.03
ATOM	26010	OD1	ASN	O	63	68.984	6.736	42.799	1.00139.89
ATOM	26011	ND2	ASN	O	63	67.985	7.779	44.523	1.00142.23
ATOM	26012	N	THR	O	64	69.942	11.952	41.579	1.00140.05
ATOM	26013	CA	THR	O	64	70.689	13.198	41.412	1.00139.72
ATOM	26014	C	THR	O	64	71.446	13.601	42.681	1.00139.61
ATOM	26015	O	THR	O	64	71.647	12.788	43.585	1.00139.98
ATOM	26016	CB	THR	O	64	69.749	14.371	40.998	1.00138.86
ATOM	26017	OG1	THR	O	64	68.841	14.664	42.065	1.00138.55
ATOM	26018	CG2	THR	O	64	68.948	14.008	39.751	1.00137.94
ATOM	26019	N	LEU	O	65	71.867	14.861	42.730	1.00139.10
ATOM	26020	CA	LEU	O	65	72.600	15.409	43.867	1.00138.09
ATOM	26021	C	LEU	O	65	72.469	16.926	43.827	1.00137.58
ATOM	26022	O	LEU	O	65	72.003	17.486	42.838	1.00137.31
ATOM	26023	CB	LEU	O	65	74.082	15.030	43.788	1.00138.75
ATOM	26024	CG	LEU	O	65	74.487	13.560	43.917	1.00139.83
ATOM	26025	CD1	LEU	O	65	75.987	13.422	43.697	1.00140.29
ATOM	26026	CD2	LEU	O	65	74.103	13.044	45.293	1.00141.06
ATOM	26027	N	ARG	O	66	72.880	17.590	44.899	1.00137.07
ATOM	26028	CA	ARG	O	66	72.808	19.045	44.963	1.00136.70
ATOM	26029	C	ARG	O	66	74.149	19.640	45.405	1.00136.53
ATOM	26030	O	ARG	O	66	74.850	19.066	46.241	1.00136.31
ATOM	26031	CB	ARG	O	66	71.698	19.491	45.930	1.00137.14
ATOM	26032	CG	ARG	O	66	70.255	19.184	45.482	1.00137.92
ATOM	26033	CD	ARG	O	66	69.691	17.891	46.098	1.00137.50
ATOM	26034	NE	ARG	O	66	68.290	17.637	45.736	1.00136.11
ATOM	26035	CZ	ARG	O	66	67.260	18.411	46.081	1.00135.47
ATOM	26036	NH1	ARG	O	66	67.454	19.506	46.804	1.00134.95
ATOM	26037	NH2	ARG	O	66	66.029	18.091	45.700	1.00133.43
ATOM	26038	N	ILE	O	67	74.501	20.788	44.829	1.00136.35

ATOM	26039	CA	ILE	O	67	75.748	21.479	45.161	1.00135.63
ATOM	26040	C	ILE	O	67	75.461	22.690	46.055	1.00135.39
ATOM	26041	O	ILE	O	67	75.307	23.815	45.570	1.00135.26
ATOM	26042	CB	ILE	O	67	76.498	21.959	43.880	1.00134.74
ATOM	26043	CG1	ILE	O	67	76.931	20.758	43.036	1.00133.00
ATOM	26044	CG2	ILE	O	67	77.730	22.771	44.263	1.00135.53
ATOM	26045	CD1	ILE	O	67	77.733	21.131	41.800	1.00130.47
ATOM	26046	N	LEU	O	68	75.388	22.447	47.361	1.00134.86
ATOM	26047	CA	LEU	O	68	75.118	23.501	48.333	1.00134.63
ATOM	26048	C	LEU	O	68	76.384	24.318	48.609	1.00134.63
ATOM	26049	O	LEU	O	68	77.470	23.973	48.139	1.00134.29
ATOM	26050	CB	LEU	O	68	74.596	22.882	49.636	1.00133.92
ATOM	26051	CG	LEU	O	68	73.390	21.939	49.524	1.00133.46
ATOM	26052	CD1	LEU	O	68	73.101	21.324	50.883	1.00133.19
ATOM	26053	CD2	LEU	O	68	72.175	22.694	49.009	1.00132.83
ATOM	26054	N	ASP	O	69	76.241	25.402	49.368	1.00134.63
ATOM	26055	CA	ASP	O	69	77.375	26.261	49.700	1.00134.40
ATOM	26056	C	ASP	O	69	77.306	26.732	51.156	1.00134.09
ATOM	26057	O	ASP	O	69	76.272	27.220	51.611	1.00134.70
ATOM	26058	CB	ASP	O	69	77.408	27.466	48.752	1.00134.55
ATOM	26059	CG	ASP	O	69	78.666	28.305	48.914	1.00135.45
ATOM	26060	OD1	ASP	O	69	79.455	28.024	49.842	1.00135.04
ATOM	26061	OD2	ASP	O	69	78.864	29.247	48.115	1.00135.70
ATOM	26062	N	ALA	O	70	78.411	26.580	51.883	1.00133.29
ATOM	26063	CA	ALA	O	70	78.465	26.986	53.282	1.00132.54
ATOM	26064	C	ALA	O	70	79.440	28.136	53.493	1.00132.69
ATOM	26065	O	ALA	O	70	79.392	28.816	54.517	1.00132.35
ATOM	26066	CB	ALA	O	70	78.862	25.804	54.153	1.00131.60
ATOM	26067	N	THR	O	71	80.320	28.352	52.519	1.00133.35
ATOM	26068	CA	THR	O	71	81.315	29.420	52.600	1.00133.68
ATOM	26069	C	THR	O	71	80.678	30.791	52.835	1.00132.69
ATOM	26070	O	THR	O	71	79.458	30.908	52.972	1.00132.93
ATOM	26071	CB	THR	O	71	82.168	29.496	51.306	1.00134.48
ATOM	26072	OG1	THR	O	71	83.289	30.363	51.522	1.00136.44
ATOM	26073	CG2	THR	O	71	81.344	30.045	50.147	1.00134.18
ATOM	26074	N	ASN	O	72	81.517	31.822	52.884	1.00131.31
ATOM	26075	CA	ASN	O	72	81.054	33.190	53.089	1.00129.84
ATOM	26076	C	ASN	O	72	81.177	33.991	51.798	1.00127.81
ATOM	26077	O	ASN	O	72	81.262	35.220	51.824	1.00127.79
ATOM	26078	CB	ASN	O	72	81.870	33.879	54.191	1.00131.41
ATOM	26079	CG	ASN	O	72	81.596	33.309	55.572	1.00133.35
ATOM	26080	OD1	ASN	O	72	82.095	33.823	56.577	1.00133.10
ATOM	26081	ND2	ASN	O	72	80.801	32.243	55.630	1.00134.81
ATOM	26082	N	ASN	O	73	81.190	33.287	50.670	1.00125.13
ATOM	26083	CA	ASN	O	73	81.305	33.930	49.369	1.00122.36
ATOM	26084	C	ASN	O	73	82.687	34.564	49.217	1.00120.29
ATOM	26085	O	ASN	O	73	82.910	35.361	48.308	1.00120.27
ATOM	26086	CB	ASN	O	73	80.220	35.008	49.211	1.00123.02
ATOM	26087	CG	ASN	O	73	78.808	34.469	49.427	1.00122.26
ATOM	26088	OD1	ASN	O	73	78.497	33.899	50.475	1.00121.42
ATOM	26089	ND2	ASN	O	73	77.946	34.659	48.435	1.00121.63
ATOM	26090	N	GLN	O	74	83.609	34.208	50.111	1.00118.56
ATOM	26091	CA	GLN	O	74	84.973	34.745	50.082	1.00116.77
ATOM	26092	C	GLN	O	74	85.826	34.128	48.976	1.00115.99
ATOM	26093	O	GLN	O	74	86.880	33.548	49.249	1.00115.62
ATOM	26094	CB	GLN	O	74	85.682	34.526	51.427	1.00115.88
ATOM	26095	CG	GLN	O	74	85.136	35.349	52.589	1.00114.02
ATOM	26096	CD	GLN	O	74	85.996	35.249	53.842	1.00111.86
ATOM	26097	OE1	GLN	O	74	85.646	35.789	54.893	1.00110.10
ATOM	26098	NE2	GLN	O	74	87.129	34.562	53.734	1.00110.28
ATOM	26099	N	LEU	O	75	85.368	34.264	47.734	1.00115.19
ATOM	26100	CA	LEU	O	75	86.078	33.732	46.572	1.00112.70

ATOM	26101	C	LEU	O	75	86.106	34.803	45.472	1.00110.20
ATOM	26102	O	LEU	O	75	85.145	35.558	45.313	1.00109.00
ATOM	26103	CB	LEU	O	75	85.369	32.471	46.066	1.00113.97
ATOM	26104	CG	LEU	O	75	85.035	31.396	47.110	1.00114.66
ATOM	26105	CD1	LEU	O	75	84.162	30.322	46.479	1.00116.25
ATOM	26106	CD2	LEU	O	75	86.313	30.791	47.669	1.00113.74
ATOM	26107	N	PRO	O	76	87.210	34.883	44.703	1.00108.36
ATOM	26108	CA	PRO	O	76	87.348	35.869	43.623	1.00107.58
ATOM	26109	C	PRO	O	76	86.063	36.063	42.828	1.00107.45
ATOM	26110	O	PRO	O	76	85.356	35.098	42.538	1.00107.36
ATOM	26111	CB	PRO	O	76	88.474	35.290	42.778	1.00106.60
ATOM	26112	CG	PRO	O	76	89.359	34.681	43.810	1.00106.71
ATOM	26113	CD	PRO	O	76	88.369	33.973	44.721	1.00107.90
ATOM	26114	N	GLN	O	77	85.763	37.311	42.477	1.00107.31
ATOM	26115	CA	GLN	O	77	84.548	37.600	41.726	1.00108.15
ATOM	26116	C	GLN	O	77	84.798	38.182	40.336	1.00107.81
ATOM	26117	O	GLN	O	77	83.858	38.425	39.576	1.00108.02
ATOM	26118	CB	GLN	O	77	83.648	38.540	42.530	1.00109.53
ATOM	26119	CG	GLN	O	77	83.392	38.082	43.961	1.00110.72
ATOM	26120	CD	GLN	O	77	82.784	36.685	44.070	1.00111.12
ATOM	26121	OE1	GLN	O	77	82.590	36.169	45.173	1.00109.21
ATOM	26122	NE2	GLN	O	77	82.479	36.072	42.929	1.00110.30
ATOM	26123	N	ASP	O	78	86.063	38.412	40.004	1.00107.00
ATOM	26124	CA	ASP	O	78	86.397	38.933	38.688	1.00106.71
ATOM	26125	C	ASP	O	78	86.650	37.748	37.762	1.00108.24
ATOM	26126	O	ASP	O	78	86.400	37.822	36.559	1.00109.10
ATOM	26127	CB	ASP	O	78	87.638	39.827	38.754	1.00104.09
ATOM	26128	CG	ASP	O	78	88.841	39.123	39.350	1.00102.57
ATOM	26129	OD1	ASP	O	78	88.706	37.966	39.801	1.00102.38
ATOM	26130	OD2	ASP	O	78	89.928	39.736	39.369	1.00100.33
ATOM	26131	N	ARG	O	79	87.133	36.652	38.344	1.00109.41
ATOM	26132	CA	ARG	O	79	87.431	35.429	37.601	1.00109.96
ATOM	26133	C	ARG	O	79	86.853	34.191	38.302	1.00110.91
ATOM	26134	O	ARG	O	79	86.147	34.310	39.306	1.00111.68
ATOM	26135	CB	ARG	O	79	88.943	35.274	37.440	1.00108.53
ATOM	26136	CG	ARG	O	79	89.693	35.118	38.752	1.00107.49
ATOM	26137	CD	ARG	O	79	91.189	34.959	38.512	1.00106.36
ATOM	26138	NE	ARG	O	79	91.821	36.201	38.075	1.00103.52
ATOM	26139	CZ	ARG	O	79	91.907	37.295	38.825	1.00102.79
ATOM	26140	NH1	ARG	O	79	91.397	37.301	40.051	1.00102.49
ATOM	26141	NH2	ARG	O	79	92.510	38.380	38.356	1.00100.82
ATOM	26142	N	GLU	O	80	87.159	33.008	37.773	1.00110.70
ATOM	26143	CA	GLU	O	80	86.662	31.751	38.337	1.00109.57
ATOM	26144	C	GLU	O	80	87.634	31.113	39.330	1.00109.51
ATOM	26145	O	GLU	O	80	88.845	31.317	39.244	1.00109.08
ATOM	26146	CB	GLU	O	80	86.383	30.756	37.209	1.00108.68
ATOM	26147	CG	GLU	O	80	85.310	31.193	36.229	1.00106.65
ATOM	26148	CD	GLU	O	80	85.251	30.312	34.994	1.00105.37
ATOM	26149	OE1	GLU	O	80	86.153	29.466	34.811	1.00103.86
ATOM	26150	OE2	GLU	O	80	84.304	30.472	34.202	1.00104.02
ATOM	26151	N	SER	O	81	87.095	30.344	40.274	1.00109.10
ATOM	26152	CA	SER	O	81	87.918	29.653	41.264	1.00109.94
ATOM	26153	C	SER	O	81	87.687	28.153	41.141	1.00111.40
ATOM	26154	O	SER	O	81	86.738	27.616	41.710	1.00111.57
ATOM	26155	CB	SER	O	81	87.566	30.114	42.675	1.00108.68
ATOM	26156	OG	SER	O	81	88.126	31.384	42.941	1.00109.26
ATOM	26157	N	LEU	O	82	88.568	27.490	40.391	1.00112.41
ATOM	26158	CA	LEU	O	82	88.492	26.052	40.135	1.00111.99
ATOM	26159	C	LEU	O	82	88.295	25.178	41.367	1.00112.76
ATOM	26160	O	LEU	O	82	88.945	25.368	42.391	1.00111.96
ATOM	26161	CB	LEU	O	82	89.750	25.591	39.393	1.00110.90
ATOM	26162	CG	LEU	O	82	89.823	24.127	38.952	1.00109.84

ATOM	26163	CD1	LEU	O	82	88.821	23.871	37.843	1.00108.03
ATOM	26164	CD2	LEU	O	82	91.228	23.812	38.472	1.00108.70
ATOM	26165	N	PHE	O	83	87.384	24.218	41.244	1.00114.77
ATOM	26166	CA	PHE	O	83	87.076	23.260	42.302	1.00117.31
ATOM	26167	C	PHE	O	83	87.077	21.872	41.668	1.00119.01
ATOM	26168	O	PHE	O	83	87.316	21.737	40.464	1.00119.08
ATOM	26169	CB	PHE	O	83	85.695	23.527	42.908	1.00117.68
ATOM	26170	CG	PHE	O	83	85.683	24.590	43.967	1.00119.54
ATOM	26171	CD1	PHE	O	83	85.911	25.922	43.643	1.00119.46
ATOM	26172	CD2	PHE	O	83	85.435	24.256	45.297	1.00120.92
ATOM	26173	CE1	PHE	O	83	85.890	26.912	44.627	1.00119.47
ATOM	26174	CE2	PHE	O	83	85.411	25.237	46.291	1.00120.73
ATOM	26175	CZ	PHE	O	83	85.640	26.569	45.954	1.00119.71
ATOM	26176	N	TRP	O	84	86.802	20.845	42.470	1.00120.89
ATOM	26177	CA	TRP	O	84	86.772	19.476	41.958	1.00121.81
ATOM	26178	C	TRP	O	84	85.698	18.594	42.587	1.00121.60
ATOM	26179	O	TRP	O	84	85.648	18.420	43.804	1.00120.31
ATOM	26180	CB	TRP	O	84	88.141	18.805	42.136	1.00122.47
ATOM	26181	CG	TRP	O	84	89.229	19.380	41.269	1.00123.17
ATOM	26182	CD1	TRP	O	84	90.280	20.151	41.677	1.00123.55
ATOM	26183	CD2	TRP	O	84	89.372	19.227	39.847	1.00123.67
ATOM	26184	NE1	TRP	O	84	91.070	20.486	40.601	1.00124.45
ATOM	26185	CE2	TRP	O	84	90.536	19.933	39.466	1.00124.01
ATOM	26186	CE3	TRP	O	84	88.630	18.563	38.859	1.00123.55
ATOM	26187	CZ2	TRP	O	84	90.977	19.992	38.137	1.00123.83
ATOM	26188	CZ3	TRP	O	84	89.069	18.622	37.536	1.00123.15
ATOM	26189	CH2	TRP	O	84	90.233	19.332	37.190	1.00123.22
ATOM	26190	N	MET	O	85	84.838	18.045	41.735	1.00122.70
ATOM	26191	CA	MET	O	85	83.772	17.154	42.171	1.00124.50
ATOM	26192	C	MET	O	85	84.168	15.725	41.829	1.00124.78
ATOM	26193	O	MET	O	85	84.717	15.462	40.757	1.00124.60
ATOM	26194	CB	MET	O	85	82.456	17.487	41.464	1.00126.31
ATOM	26195	CG	MET	O	85	81.738	18.709	41.988	1.00128.77
ATOM	26196	SD	MET	O	85	80.164	18.953	41.143	1.00133.68
ATOM	26197	CE	MET	O	85	79.164	17.678	41.909	1.00132.64
ATOM	26198	N	ASN	O	86	83.891	14.800	42.740	1.00124.83
ATOM	26199	CA	ASN	O	86	84.224	13.408	42.501	1.00125.03
ATOM	26200	C	ASN	O	86	83.175	12.472	43.076	1.00125.93
ATOM	26201	O	ASN	O	86	82.937	12.455	44.286	1.00125.60
ATOM	26202	CB	ASN	O	86	85.595	13.075	43.097	1.00124.16
ATOM	26203	CG	ASN	O	86	86.707	13.922	42.511	1.00123.01
ATOM	26204	OD1	ASN	O	86	86.820	15.109	42.809	1.00123.23
ATOM	26205	ND2	ASN	O	86	87.532	13.316	41.665	1.00121.67
ATOM	26206	N	VAL	O	87	82.541	11.704	42.194	1.00126.93
ATOM	26207	CA	VAL	O	87	81.525	10.744	42.603	1.00127.47
ATOM	26208	C	VAL	O	87	82.192	9.377	42.702	1.00127.14
ATOM	26209	O	VAL	O	87	82.707	8.844	41.713	1.00125.47
ATOM	26210	CB	VAL	O	87	80.352	10.681	41.590	1.00128.35
ATOM	26211	CG1	VAL	O	87	79.305	9.672	42.057	1.00127.54
ATOM	26212	CG2	VAL	O	87	79.718	12.059	41.446	1.00128.31
ATOM	26213	N	LYS	O	88	82.189	8.828	43.912	1.00127.81
ATOM	26214	CA	LYS	O	88	82.799	7.534	44.184	1.00128.78
ATOM	26215	C	LYS	O	88	81.787	6.616	44.855	1.00129.57
ATOM	26216	O	LYS	O	88	81.397	6.842	46.002	1.00129.69
ATOM	26217	CB	LYS	O	88	84.014	7.713	45.103	1.00128.32
ATOM	26218	CG	LYS	O	88	84.780	6.432	45.398	1.00126.68
ATOM	26219	CD	LYS	O	88	85.806	6.636	46.502	1.00124.94
ATOM	26220	CE	LYS	O	88	85.129	6.895	47.841	1.00124.66
ATOM	26221	NZ	LYS	O	88	86.100	6.953	48.968	1.00124.33
ATOM	26222	N	ALA	O	89	81.365	5.581	44.135	1.00130.44
ATOM	26223	CA	ALA	O	89	80.399	4.626	44.664	1.00131.59
ATOM	26224	C	ALA	O	89	81.116	3.453	45.319	1.00132.29

ATOM	26225	O	ALA	O	89	81.226	2.375	44.734	1.00132.37
ATOM	26226	CB	ALA	O	89	79.490	4.129	43.547	1.00131.32
ATOM	26227	N	ILE	O	90	81.605	3.678	46.535	1.00133.40
ATOM	26228	CA	ILE	O	90	82.316	2.654	47.291	1.00135.08
ATOM	26229	C	ILE	O	90	81.538	1.343	47.259	1.00136.48
ATOM	26230	O	ILE	O	90	80.543	1.189	47.967	1.00136.88
ATOM	26231	CB	ILE	O	90	82.497	3.073	48.765	1.00134.56
ATOM	26232	CG1	ILE	O	90	83.095	4.480	48.838	1.00133.92
ATOM	26233	CG2	ILE	O	90	83.397	2.075	49.479	1.00134.04
ATOM	26234	CD1	ILE	O	90	83.279	5.002	50.249	1.00133.28
ATOM	26235	N	PRO	O	91	81.983	0.378	46.439	1.00137.88
ATOM	26236	CA	PRO	O	91	81.288	-0.907	46.350	1.00139.21
ATOM	26237	C	PRO	O	91	81.398	-1.716	47.635	1.00140.59
ATOM	26238	O	PRO	O	91	82.497	-1.965	48.130	1.00140.32
ATOM	26239	CB	PRO	O	91	81.983	-1.585	45.175	1.00139.01
ATOM	26240	CG	PRO	O	91	83.385	-1.104	45.320	1.00138.62
ATOM	26241	CD	PRO	O	91	83.198	0.371	45.605	1.00138.02
ATOM	26242	N	SER	O	92	80.253	-2.113	48.178	1.00142.43
ATOM	26243	CA	SER	O	92	80.235	-2.908	49.397	1.00144.26
ATOM	26244	C	SER	O	92	80.688	-4.322	49.044	1.00145.56
ATOM	26245	O	SER	O	92	80.155	-4.939	48.120	1.00146.02
ATOM	26246	CB	SER	O	92	78.823	-2.942	49.990	1.00144.29
ATOM	26247	OG	SER	O	92	78.382	-1.641	50.338	1.00144.75
ATOM	26248	N	MET	O	93	81.682	-4.822	49.772	1.00146.52
ATOM	26249	CA	MET	O	93	82.214	-6.162	49.540	1.00147.52
ATOM	26250	C	MET	O	93	81.081	-7.178	49.415	1.00147.74
ATOM	26251	O	MET	O	93	80.196	-7.238	50.269	1.00147.99
ATOM	26252	CB	MET	O	93	83.128	-6.565	50.696	1.00148.82
ATOM	26253	CG	MET	O	93	83.833	-7.896	50.506	1.00149.76
ATOM	26254	SD	MET	O	93	84.391	-8.576	52.078	1.00152.35
ATOM	26255	CE	MET	O	93	85.675	-7.393	52.541	1.00151.55
ATOM	26256	N	ASP	O	94	81.114	-7.978	48.355	1.00147.89
ATOM	26257	CA	ASP	O	94	80.083	-8.986	48.122	1.00148.21
ATOM	26258	C	ASP	O	94	80.050	-10.048	49.227	1.00148.70
ATOM	26259	O	ASP	O	94	80.449	-9.785	50.362	1.00148.59
ATOM	26260	CB	ASP	O	94	80.305	-9.654	46.763	1.00147.51
ATOM	26261	CG	ASP	O	94	80.312	-8.660	45.618	1.00146.79
ATOM	26262	OD1	ASP	O	94	80.219	-7.441	45.880	1.00145.84
ATOM	26263	OD2	ASP	O	94	80.413	-9.100	44.455	1.00147.07
ATOM	26264	N	LYS	O	95	79.570	-11.245	48.893	1.00149.28
ATOM	26265	CA	LYS	O	95	79.485	-12.329	49.870	1.00149.72
ATOM	26266	C	LYS	O	95	79.725	-13.718	49.267	1.00150.42
ATOM	26267	O	LYS	O	95	78.777	-14.480	49.066	1.00150.41
ATOM	26268	CB	LYS	O	95	78.111	-12.323	50.557	1.00149.35
ATOM	26269	CG	LYS	O	95	77.549	-10.943	50.869	1.00149.42
ATOM	26270	CD	LYS	O	95	76.897	-10.327	49.638	1.00148.94
ATOM	26271	CE	LYS	O	95	76.453	-8.898	49.893	1.00148.58
ATOM	26272	NZ	LYS	O	95	77.611	-8.010	50.176	1.00147.73
ATOM	26273	N	SER	O	96	80.987	-14.041	48.985	1.00151.02
ATOM	26274	CA	SER	O	96	81.376	-15.342	48.425	1.00151.36
ATOM	26275	C	SER	O	96	82.827	-15.313	47.963	1.00152.07
ATOM	26276	O	SER	O	96	83.570	-16.278	48.146	1.00151.84
ATOM	26277	CB	SER	O	96	80.484	-15.729	47.247	1.00150.96
ATOM	26278	OG	SER	O	96	80.810	-17.030	46.791	1.00150.20
ATOM	26279	N	LYS	O	97	83.216	-14.203	47.345	1.00153.29
ATOM	26280	CA	LYS	O	97	84.582	-14.014	46.874	1.00154.53
ATOM	26281	C	LYS	O	97	85.425	-13.765	48.121	1.00155.31
ATOM	26282	O	LYS	O	97	86.648	-13.907	48.110	1.00155.50
ATOM	26283	CB	LYS	O	97	84.658	-12.789	45.961	1.00154.52
ATOM	26284	CG	LYS	O	97	83.830	-12.877	44.693	1.00154.11
ATOM	26285	CD	LYS	O	97	84.428	-13.869	43.724	1.00153.95
ATOM	26286	CE	LYS	O	97	83.932	-13.615	42.316	1.00153.94

ATOM	26287	NZ	LYS	O	97	84.741	-14.360	41.314	1.00154.46
ATOM	26288	N	LEU	O	98	84.734	-13.385	49.192	1.00156.17
ATOM	26289	CA	LEU	O	98	85.334	-13.089	50.486	1.00157.03
ATOM	26290	C	LEU	O	98	86.355	-14.138	50.924	1.00158.04
ATOM	26291	O	LEU	O	98	87.346	-13.811	51.579	1.00158.12
ATOM	26292	CB	LEU	O	98	84.215	-12.949	51.530	1.00156.78
ATOM	26293	CG	LEU	O	98	84.487	-12.751	53.026	1.00157.02
ATOM	26294	CD1	LEU	O	98	84.699	-14.096	53.704	1.00156.21
ATOM	26295	CD2	LEU	O	98	85.677	-11.826	53.215	1.00157.20
ATOM	26296	N	THR	O	99	86.122	-15.393	50.547	1.00159.05
ATOM	26297	CA	THR	O	99	87.023	-16.483	50.917	1.00159.97
ATOM	26298	C	THR	O	99	88.119	-16.732	49.881	1.00160.20
ATOM	26299	O	THR	O	99	88.519	-17.874	49.651	1.00159.80
ATOM	26300	CB	THR	O	99	86.244	-17.796	51.134	1.00160.33
ATOM	26301	OG1	THR	O	99	85.720	-18.259	49.883	1.00160.37
ATOM	26302	CG2	THR	O	99	85.095	-17.570	52.109	1.00160.63
ATOM	26303	N	GLU	O	100	88.601	-15.658	49.263	1.00160.75
ATOM	26304	CA	GLU	O	100	89.655	-15.754	48.256	1.00161.16
ATOM	26305	C	GLU	O	100	90.450	-14.451	48.194	1.00161.24
ATOM	26306	O	GLU	O	100	90.074	-13.453	48.814	1.00161.31
ATOM	26307	CB	GLU	O	100	89.055	-16.035	46.875	1.00161.44
ATOM	26308	CG	GLU	O	100	88.205	-17.290	46.773	1.00162.14
ATOM	26309	CD	GLU	O	100	87.656	-17.503	45.372	1.00162.33
ATOM	26310	OE1	GLU	O	100	88.465	-17.705	44.441	1.00162.73
ATOM	26311	OE2	GLU	O	100	86.418	-17.463	45.201	1.00161.59
ATOM	26312	N	ASN	O	101	91.548	-14.469	47.442	1.00161.00
ATOM	26313	CA	ASN	O	101	92.399	-13.291	47.280	1.00160.27
ATOM	26314	C	ASN	O	101	91.774	-12.376	46.233	1.00159.44
ATOM	26315	O	ASN	O	101	92.230	-12.316	45.091	1.00159.46
ATOM	26316	CB	ASN	O	101	93.802	-13.708	46.832	1.00161.00
ATOM	26317	CG	ASN	O	101	94.457	-14.683	47.791	1.00162.03
ATOM	26318	OD1	ASN	O	101	93.931	-15.766	48.052	1.00162.71
ATOM	26319	ND2	ASN	O	101	95.614	-14.303	48.321	1.00162.86
ATOM	26320	N	THR	O	102	90.729	-11.661	46.638	1.00158.50
ATOM	26321	CA	THR	O	102	90.000	-10.759	45.750	1.00157.11
ATOM	26322	C	THR	O	102	90.637	-9.382	45.522	1.00156.32
ATOM	26323	O	THR	O	102	91.689	-9.064	46.079	1.00156.26
ATOM	26324	CB	THR	O	102	88.552	-10.562	46.262	1.00156.61
ATOM	26325	OG1	THR	O	102	88.572	-10.199	47.649	1.00155.26
ATOM	26326	CG2	THR	O	102	87.754	-11.841	46.091	1.00156.08
ATOM	26327	N	LEU	O	103	89.981	-8.582	44.684	1.00154.93
ATOM	26328	CA	LEU	O	103	90.422	-7.230	44.338	1.00153.22
ATOM	26329	C	LEU	O	103	89.216	-6.465	43.796	1.00152.15
ATOM	26330	O	LEU	O	103	88.925	-6.528	42.602	1.00151.75
ATOM	26331	CB	LEU	O	103	91.515	-7.281	43.264	1.00152.83
ATOM	26332	CG	LEU	O	103	92.032	-5.950	42.706	1.00152.21
ATOM	26333	CD1	LEU	O	103	92.790	-5.184	43.783	1.00152.36
ATOM	26334	CD2	LEU	O	103	92.938	-6.223	41.522	1.00151.31
ATOM	26335	N	GLN	O	104	88.515	-5.749	44.674	1.00151.00
ATOM	26336	CA	GLN	O	104	87.327	-4.991	44.276	1.00149.55
ATOM	26337	C	GLN	O	104	87.630	-3.497	44.136	1.00147.75
ATOM	26338	O	GLN	O	104	88.122	-2.856	45.069	1.00147.56
ATOM	26339	CB	GLN	O	104	86.200	-5.218	45.295	1.00150.32
ATOM	26340	CG	GLN	O	104	84.792	-5.167	44.705	1.00150.55
ATOM	26341	CD	GLN	O	104	83.739	-5.722	45.651	1.00150.71
ATOM	26342	OE1	GLN	O	104	83.839	-6.860	46.111	1.00150.85
ATOM	26343	NE2	GLN	O	104	82.719	-4.921	45.939	1.00150.27
ATOM	26344	N	LEU	O	105	87.322	-2.950	42.962	1.00145.06
ATOM	26345	CA	LEU	O	105	87.576	-1.544	42.671	1.00142.17
ATOM	26346	C	LEU	O	105	86.397	-0.618	42.952	1.00140.66
ATOM	26347	O	LEU	O	105	85.267	-1.062	43.155	1.00140.78
ATOM	26348	CB	LEU	O	105	87.988	-1.390	41.207	1.00140.98

ATOM	26349	CG	LEU	O	105	89.079	-2.342	40.722	1.00139.65
ATOM	26350	CD1	LEU	O	105	89.388	-2.043	39.268	1.00139.97
ATOM	26351	CD2	LEU	O	105	90.323	-2.190	41.582	1.00140.26
ATOM	26352	N	ALA	O	106	86.688	0.678	42.955	1.00138.51
ATOM	26353	CA	ALA	O	106	85.693	1.716	43.186	1.00136.61
ATOM	26354	C	ALA	O	106	86.042	2.886	42.271	1.00135.55
ATOM	26355	O	ALA	O	106	86.546	3.915	42.728	1.00136.24
ATOM	26356	CB	ALA	O	106	85.724	2.161	44.642	1.00135.54
ATOM	26357	N	ILE	O	107	85.782	2.716	40.977	1.00133.61
ATOM	26358	CA	ILE	O	107	86.079	3.745	39.985	1.00131.20
ATOM	26359	C	ILE	O	107	85.469	5.091	40.357	1.00129.89
ATOM	26360	O	ILE	O	107	84.258	5.212	40.551	1.00128.75
ATOM	26361	CB	ILE	O	107	85.580	3.340	38.575	1.00131.05
ATOM	26362	CG1	ILE	O	107	86.312	2.086	38.090	1.00130.85
ATOM	26363	CG2	ILE	O	107	85.833	4.470	37.591	1.00130.99
ATOM	26364	CD1	ILE	O	107	86.011	0.833	38.891	1.00131.68
ATOM	26365	N	ILE	O	108	86.330	6.100	40.451	1.00128.85
ATOM	26366	CA	ILE	O	108	85.914	7.450	40.804	1.00127.64
ATOM	26367	C	ILE	O	108	86.001	8.359	39.581	1.00126.65
ATOM	26368	O	ILE	O	108	86.697	8.045	38.614	1.00126.91
ATOM	26369	CB	ILE	O	108	86.815	8.019	41.915	1.00127.63
ATOM	26370	CG1	ILE	O	108	86.986	6.973	43.021	1.00128.35
ATOM	26371	CG2	ILE	O	108	86.205	9.295	42.478	1.00127.29
ATOM	26372	CD1	ILE	O	108	87.946	7.375	44.125	1.00128.94
ATOM	26373	N	SER	O	109	85.293	9.482	39.625	1.00124.85
ATOM	26374	CA	SER	O	109	85.292	10.431	38.518	1.00122.52
ATOM	26375	C	SER	O	109	85.678	11.834	38.993	1.00120.81
ATOM	26376	O	SER	O	109	85.413	12.206	40.137	1.00120.52
ATOM	26377	CB	SER	O	109	83.909	10.446	37.858	1.00122.93
ATOM	26378	OG	SER	O	109	82.883	10.427	38.840	1.00123.00
ATOM	26379	N	ARG	O	110	86.308	12.606	38.112	1.00118.69
ATOM	26380	CA	ARG	O	110	86.739	13.961	38.449	1.00116.39
ATOM	26381	C	ARG	O	110	86.277	14.959	37.389	1.00115.83
ATOM	26382	O	ARG	O	110	86.734	14.925	36.240	1.00114.72
ATOM	26383	CB	ARG	O	110	88.265	14.015	38.572	1.00115.35
ATOM	26384	CG	ARG	O	110	88.793	15.238	39.303	1.00111.69
ATOM	26385	CD	ARG	O	110	90.298	15.375	39.131	1.00109.95
ATOM	26386	NE	ARG	O	110	90.865	16.381	40.026	1.00109.42
ATOM	26387	CZ	ARG	O	110	92.100	16.870	39.930	1.00109.96
ATOM	26388	NH1	ARG	O	110	92.913	16.452	38.968	1.00111.13
ATOM	26389	NH2	ARG	O	110	92.530	17.773	40.802	1.00109.77
ATOM	26390	N	ILE	O	111	85.372	15.848	37.788	1.00115.07
ATOM	26391	CA	ILE	O	111	84.829	16.859	36.886	1.00114.10
ATOM	26392	C	ILE	O	111	85.222	18.270	37.309	1.00112.62
ATOM	26393	O	ILE	O	111	85.713	18.492	38.416	1.00111.18
ATOM	26394	CB	ILE	O	111	83.269	16.784	36.814	1.00114.88
ATOM	26395	CG1	ILE	O	111	82.664	16.987	38.208	1.00114.28
ATOM	26396	CG2	ILE	O	111	82.831	15.443	36.236	1.00114.51
ATOM	26397	CD1	ILE	O	111	81.149	16.914	38.249	1.00110.75
ATOM	26398	N	LYS	O	112	84.990	19.221	36.413	1.00111.75
ATOM	26399	CA	LYS	O	112	85.302	20.618	36.671	1.00111.03
ATOM	26400	C	LYS	O	112	84.092	21.336	37.264	1.00109.87
ATOM	26401	O	LYS	O	112	82.994	21.264	36.716	1.00108.95
ATOM	26402	CB	LYS	O	112	85.696	21.307	35.366	1.00111.49
ATOM	26403	CG	LYS	O	112	86.912	20.722	34.666	1.00112.08
ATOM	26404	CD	LYS	O	112	88.203	21.236	35.271	1.00111.91
ATOM	26405	CE	LYS	O	112	89.386	20.901	34.381	1.00111.90
ATOM	26406	NZ	LYS	O	112	90.646	21.477	34.920	1.00112.87
ATOM	26407	N	LEU	O	113	84.295	22.024	38.384	1.00109.18
ATOM	26408	CA	LEU	O	113	83.222	22.778	39.028	1.00108.41
ATOM	26409	C	LEU	O	113	83.639	24.240	39.118	1.00109.16
ATOM	26410	O	LEU	O	113	84.151	24.695	40.144	1.00109.31

ATOM	26411	CB	LEU	O	113	82.931	22.241	40.435	1.00105.90
ATOM	26412	CG	LEU	O	113	81.917	23.027	41.279	1.00102.07
ATOM	26413	CD1	LEU	O	113	80.576	23.070	40.584	1.00101.08
ATOM	26414	CD2	LEU	O	113	81.775	22.374	42.635	1.00102.84
ATOM	26415	N	TYR	O	114	83.415	24.971	38.032	1.00109.91
ATOM	26416	CA	TYR	O	114	83.772	26.379	37.979	1.00110.84
ATOM	26417	C	TYR	O	114	82.860	27.312	38.762	1.00111.93
ATOM	26418	O	TYR	O	114	81.705	27.531	38.384	1.00110.67
ATOM	26419	CB	TYR	O	114	83.814	26.862	36.531	1.00109.80
ATOM	26420	CG	TYR	O	114	84.948	26.306	35.714	1.00109.77
ATOM	26421	CD1	TYR	O	114	85.812	25.345	36.237	1.00110.52
ATOM	26422	CD2	TYR	O	114	85.153	26.737	34.408	1.00110.08
ATOM	26423	CE1	TYR	O	114	86.851	24.828	35.477	1.00111.02
ATOM	26424	CE2	TYR	O	114	86.186	26.229	33.640	1.00111.14
ATOM	26425	CZ	TYR	O	114	87.030	25.275	34.178	1.00111.63
ATOM	26426	OH	TYR	O	114	88.042	24.760	33.404	1.00114.05
ATOM	26427	N	TYR	O	115	83.382	27.852	39.859	1.00113.44
ATOM	26428	CA	TYR	O	115	82.636	28.817	40.647	1.00114.61
ATOM	26429	C	TYR	O	115	82.786	30.089	39.820	1.00115.61
ATOM	26430	O	TYR	O	115	83.767	30.828	39.970	1.00115.24
ATOM	26431	CB	TYR	O	115	83.273	29.017	42.021	1.00114.92
ATOM	26432	CG	TYR	O	115	82.771	30.254	42.741	1.00116.18
ATOM	26433	CD1	TYR	O	115	81.453	30.342	43.192	1.00116.37
ATOM	26434	CD2	TYR	O	115	83.613	31.345	42.958	1.00116.37
ATOM	26435	CE1	TYR	O	115	80.988	31.488	43.845	1.00116.84
ATOM	26436	CE2	TYR	O	115	83.157	32.493	43.608	1.00116.57
ATOM	26437	CZ	TYR	O	115	81.847	32.557	44.050	1.00116.16
ATOM	26438	OH	TYR	O	115	81.404	33.685	44.704	1.00116.49
ATOM	26439	N	ARG	O	116	81.825	30.318	38.928	1.00116.07
ATOM	26440	CA	ARG	O	116	81.848	31.479	38.049	1.00116.29
ATOM	26441	C	ARG	O	116	81.043	32.650	38.596	1.00117.28
ATOM	26442	O	ARG	O	116	79.848	32.523	38.867	1.00118.00
ATOM	26443	CB	ARG	O	116	81.319	31.097	36.668	1.00114.57
ATOM	26444	CG	ARG	O	116	81.449	32.198	35.639	1.00112.80
ATOM	26445	CD	ARG	O	116	81.005	31.700	34.287	1.00112.83
ATOM	26446	NE	ARG	O	116	81.861	30.626	33.797	1.00111.87
ATOM	26447	CZ	ARG	O	116	81.595	29.889	32.723	1.00111.91
ATOM	26448	NH1	ARG	O	116	80.488	30.108	32.025	1.00111.40
ATOM	26449	NH2	ARG	O	116	82.439	28.939	32.341	1.00112.50
ATOM	26450	N	PRO	O	117	81.696	33.812	38.762	1.00117.88
ATOM	26451	CA	PRO	O	117	81.076	35.036	39.278	1.00118.03
ATOM	26452	C	PRO	O	117	79.931	35.557	38.409	1.00118.33
ATOM	26453	O	PRO	O	117	80.015	35.548	37.180	1.00118.60
ATOM	26454	CB	PRO	O	117	82.244	36.016	39.322	1.00118.13
ATOM	26455	CG	PRO	O	117	83.421	35.128	39.548	1.00117.65
ATOM	26456	CD	PRO	O	117	83.148	34.002	38.595	1.00117.05
ATOM	26457	N	ALA	O	118	78.865	36.012	39.057	1.00118.56
ATOM	26458	CA	ALA	O	118	77.717	36.557	38.347	1.00119.68
ATOM	26459	C	ALA	O	118	77.918	38.064	38.225	1.00120.66
ATOM	26460	O	ALA	O	118	77.233	38.853	38.880	1.00121.27
ATOM	26461	CB	ALA	O	118	76.437	36.254	39.106	1.00118.75
ATOM	26462	N	LYS	O	119	78.871	38.453	37.385	1.00121.02
ATOM	26463	CA	LYS	O	119	79.190	39.858	37.175	1.00120.95
ATOM	26464	C	LYS	O	119	80.372	39.904	36.207	1.00120.42
ATOM	26465	O	LYS	O	119	81.339	40.639	36.417	1.00120.77
ATOM	26466	CB	LYS	O	119	79.572	40.507	38.517	1.00120.65
ATOM	26467	CG	LYS	O	119	79.574	42.030	38.530	1.00120.18
ATOM	26468	CD	LYS	O	119	78.164	42.595	38.436	1.00118.89
ATOM	26469	CE	LYS	O	119	78.185	44.116	38.421	1.00118.63
ATOM	26470	NZ	LYS	O	119	76.816	44.689	38.313	1.00118.59
ATOM	26471	N	LEU	O	120	80.289	39.108	35.145	1.00119.19
ATOM	26472	CA	LEU	O	120	81.364	39.054	34.164	1.00119.08

ATOM	26473	C	LEU	O	120	80.994	39.706	32.827	1.00118.55
ATOM	26474	O	LEU	O	120	79.910	39.475	32.286	1.00118.02
ATOM	26475	CB	LEU	O	120	81.789	37.594	33.949	1.00119.15
ATOM	26476	CG	LEU	O	120	82.167	36.788	35.203	1.00118.26
ATOM	26477	CD1	LEU	O	120	82.647	35.405	34.789	1.00117.21
ATOM	26478	CD2	LEU	O	120	83.255	37.508	35.992	1.00116.92
ATOM	26479	N	ALA	O	121	81.909	40.521	32.303	1.00118.67
ATOM	26480	CA	ALA	O	121	81.711	41.228	31.035	1.00119.16
ATOM	26481	C	ALA	O	121	81.747	40.286	29.840	1.00119.49
ATOM	26482	O	ALA	O	121	80.714	39.952	29.260	1.00118.85
ATOM	26483	CB	ALA	O	121	82.780	42.301	30.869	1.00118.42
ATOM	26484	N	LEU	O	122	82.956	39.874	29.479	1.00120.40
ATOM	26485	CA	LEU	O	122	83.182	38.968	28.363	1.00121.23
ATOM	26486	C	LEU	O	122	82.496	37.624	28.611	1.00122.80
ATOM	26487	O	LEU	O	122	82.998	36.805	29.380	1.00122.38
ATOM	26488	CB	LEU	O	122	84.684	38.754	28.190	1.00119.86
ATOM	26489	CG	LEU	O	122	85.147	37.956	26.978	1.00119.49
ATOM	26490	CD1	LEU	O	122	84.845	38.730	25.714	1.00119.53
ATOM	26491	CD2	LEU	O	122	86.630	37.697	27.088	1.00119.02
ATOM	26492	N	PRO	O	123	81.345	37.375	27.955	1.00124.86
ATOM	26493	CA	PRO	O	123	80.606	36.116	28.123	1.00126.57
ATOM	26494	C	PRO	O	123	81.415	34.882	27.707	1.00128.29
ATOM	26495	O	PRO	O	123	82.403	34.993	26.975	1.00127.86
ATOM	26496	CB	PRO	O	123	79.369	36.327	27.251	1.00125.41
ATOM	26497	CG	PRO	O	123	79.890	37.178	26.144	1.00124.95
ATOM	26498	CD	PRO	O	123	80.732	38.195	26.895	1.00125.58
ATOM	26499	N	PRO	O	124	81.001	33.687	28.168	1.00129.85
ATOM	26500	CA	PRO	O	124	81.703	32.442	27.833	1.00131.12
ATOM	26501	C	PRO	O	124	81.700	32.166	26.333	1.00132.28
ATOM	26502	O	PRO	O	124	82.264	31.172	25.873	1.00133.07
ATOM	26503	CB	PRO	O	124	80.925	31.390	28.619	1.00130.65
ATOM	26504	CG	PRO	O	124	79.531	31.945	28.615	1.00130.38
ATOM	26505	CD	PRO	O	124	79.772	33.403	28.932	1.00129.54
ATOM	26506	N	ASP	O	125	81.065	33.062	25.582	1.00133.42
ATOM	26507	CA	ASP	O	125	80.957	32.948	24.131	1.00134.28
ATOM	26508	C	ASP	O	125	82.186	33.504	23.411	1.00134.08
ATOM	26509	O	ASP	O	125	82.659	32.924	22.433	1.00133.47
ATOM	26510	CB	ASP	O	125	79.698	33.682	23.644	1.00135.52
ATOM	26511	CG	ASP	O	125	78.405	33.066	24.180	1.00136.80
ATOM	26512	OD1	ASP	O	125	78.315	32.810	25.403	1.00137.80
ATOM	26513	OD2	ASP	O	125	77.470	32.848	23.377	1.00136.96
ATOM	26514	N	GLN	O	126	82.700	34.627	23.904	1.00134.67
ATOM	26515	CA	GLN	O	126	83.866	35.274	23.308	1.00134.92
ATOM	26516	C	GLN	O	126	85.089	35.209	24.223	1.00134.86
ATOM	26517	O	GLN	O	126	85.983	36.057	24.154	1.00133.81
ATOM	26518	CB	GLN	O	126	83.531	36.731	22.978	1.00134.80
ATOM	26519	CG	GLN	O	126	82.425	36.884	21.941	1.00135.19
ATOM	26520	CD	GLN	O	126	81.313	37.816	22.392	1.00136.00
ATOM	26521	OE1	GLN	O	126	80.382	38.102	21.636	1.00135.95
ATOM	26522	NE2	GLN	O	126	81.402	38.291	23.630	1.00135.61
ATOM	26523	N	ALA	O	127	85.120	34.187	25.072	1.00135.78
ATOM	26524	CA	ALA	O	127	86.220	33.994	26.009	1.00136.91
ATOM	26525	C	ALA	O	127	87.226	32.985	25.468	1.00137.26
ATOM	26526	O	ALA	O	127	88.437	33.179	25.587	1.00137.48
ATOM	26527	CB	ALA	O	127	85.678	33.524	27.356	1.00137.24
ATOM	26528	N	ALA	O	128	86.717	31.907	24.877	1.00137.49
ATOM	26529	CA	ALA	O	128	87.566	30.863	24.314	1.00137.86
ATOM	26530	C	ALA	O	128	87.925	31.171	22.860	1.00138.61
ATOM	26531	O	ALA	O	128	87.721	30.341	21.972	1.00139.16
ATOM	26532	CB	ALA	O	128	86.858	29.516	24.408	1.00136.67
ATOM	26533	N	GLU	O	129	88.467	32.366	22.627	1.00139.50
ATOM	26534	CA	GLU	O	129	88.852	32.805	21.285	1.00139.86

ATOM	26535	C	GLU	O	129	89.863	33.950	21.336	1.00139.16
ATOM	26536	O	GLU	O	129	90.174	34.566	20.316	1.00138.65
ATOM	26537	CB	GLU	O	129	87.606	33.244	20.505	1.00141.34
ATOM	26538	CG	GLU	O	129	86.681	34.186	21.276	1.00143.24
ATOM	26539	CD	GLU	O	129	85.307	34.327	20.633	1.00144.10
ATOM	26540	OE1	GLU	O	129	84.623	33.296	20.446	1.00145.01
ATOM	26541	OE2	GLU	O	129	84.906	35.469	20.322	1.00144.99
ATOM	26542	N	LYS	O	130	90.378	34.216	22.533	1.00138.68
ATOM	26543	CA	LYS	O	130	91.345	35.286	22.745	1.00138.37
ATOM	26544	C	LYS	O	130	92.719	34.736	23.117	1.00137.72
ATOM	26545	O	LYS	O	130	93.663	35.497	23.332	1.00137.37
ATOM	26546	CB	LYS	O	130	90.855	36.207	23.861	1.00139.12
ATOM	26547	CG	LYS	O	130	89.445	36.746	23.665	1.00138.96
ATOM	26548	CD	LYS	O	130	89.016	37.574	24.865	1.00139.28
ATOM	26549	CE	LYS	O	130	89.978	38.734	25.116	1.00139.49
ATOM	26550	NZ	LYS	O	130	89.686	39.464	26.384	1.00139.58
ATOM	26551	N	LEU	O	131	92.816	33.412	23.197	1.00137.15
ATOM	26552	CA	LEU	O	131	94.058	32.730	23.550	1.00137.10
ATOM	26553	C	LEU	O	131	95.274	33.348	22.856	1.00138.24
ATOM	26554	O	LEU	O	131	95.466	33.168	21.654	1.00138.88
ATOM	26555	CB	LEU	O	131	93.953	31.245	23.181	1.00135.01
ATOM	26556	CG	LEU	O	131	95.064	30.303	23.655	1.00133.49
ATOM	26557	CD1	LEU	O	131	95.020	30.185	25.167	1.00133.03
ATOM	26558	CD2	LEU	O	131	94.886	28.936	23.022	1.00132.29
ATOM	26559	N	ARG	O	132	96.094	34.070	23.618	1.00139.12
ATOM	26560	CA	ARG	O	132	97.290	34.710	23.071	1.00140.42
ATOM	26561	C	ARG	O	132	98.529	33.827	23.245	1.00141.40
ATOM	26562	O	ARG	O	132	98.643	33.097	24.232	1.00141.27
ATOM	26563	CB	ARG	O	132	97.516	36.065	23.747	1.00141.42
ATOM	26564	CG	ARG	O	132	96.312	37.002	23.693	1.00142.86
ATOM	26565	CD	ARG	O	132	96.726	38.448	23.946	1.00144.36
ATOM	26566	NE	ARG	O	132	97.318	38.630	25.270	1.00144.74
ATOM	26567	CZ	ARG	O	132	97.899	39.752	25.686	1.00144.38
ATOM	26568	NH1	ARG	O	132	97.974	40.804	24.880	1.00144.20
ATOM	26569	NH2	ARG	O	132	98.400	39.824	26.912	1.00144.32
ATOM	26570	N	PHE	O	133	99.460	33.910	22.293	1.00142.49
ATOM	26571	CA	PHE	O	133	100.675	33.090	22.324	1.00143.10
ATOM	26572	C	PHE	O	133	102.003	33.837	22.496	1.00142.52
ATOM	26573	O	PHE	O	133	102.262	34.846	21.836	1.00141.90
ATOM	26574	CB	PHE	O	133	100.747	32.228	21.055	1.00144.76
ATOM	26575	CG	PHE	O	133	99.625	31.227	20.931	1.00146.62
ATOM	26576	CD1	PHE	O	133	98.303	31.647	20.799	1.00146.91
ATOM	26577	CD2	PHE	O	133	99.889	29.862	20.971	1.00147.22
ATOM	26578	CE1	PHE	O	133	97.263	30.721	20.711	1.00146.91
ATOM	26579	CE2	PHE	O	133	98.855	28.931	20.883	1.00147.46
ATOM	26580	CZ	PHE	O	133	97.540	29.363	20.754	1.00147.12
ATOM	26581	N	ARG	O	134	102.843	33.314	23.386	1.00142.30
ATOM	26582	CA	ARG	O	134	104.157	33.886	23.667	1.00142.28
ATOM	26583	C	ARG	O	134	105.183	32.762	23.583	1.00142.00
ATOM	26584	O	ARG	O	134	106.107	32.686	24.395	1.00141.99
ATOM	26585	CB	ARG	O	134	104.199	34.495	25.075	1.00142.80
ATOM	26586	CG	ARG	O	134	105.481	35.277	25.385	1.00141.30
ATOM	26587	CD	ARG	O	134	105.943	35.081	26.828	1.00138.85
ATOM	26588	NE	ARG	O	134	104.916	35.431	27.806	1.00135.81
ATOM	26589	CZ	ARG	O	134	105.062	35.293	29.119	1.00134.47
ATOM	26590	NH1	ARG	O	134	106.194	34.813	29.617	1.00132.89
ATOM	26591	NH2	ARG	O	134	104.072	35.623	29.936	1.00133.40
ATOM	26592	N	ARG	O	135	105.007	31.885	22.600	1.00141.77
ATOM	26593	CA	ARG	O	135	105.910	30.755	22.409	1.00141.58
ATOM	26594	C	ARG	O	135	107.368	31.192	22.563	1.00141.32
ATOM	26595	O	ARG	O	135	107.775	32.237	22.048	1.00142.03
ATOM	26596	CB	ARG	O	135	105.693	30.134	21.022	1.00141.10

ATOM	26597	CG	ARG	O	135	106.447	30.815	19.884	1.00139.26
ATOM	26598	CD	ARG	O	135	107.788	30.140	19.644	1.00137.15
ATOM	26599	NE	ARG	O	135	107.619	28.802	19.086	1.00135.23
ATOM	26600	CZ	ARG	O	135	108.607	27.930	18.923	1.00135.10
ATOM	26601	NH1	ARG	O	135	109.839	28.248	19.290	1.00135.18
ATOM	26602	NH2	ARG	O	135	108.362	26.736	18.402	1.00135.42
ATOM	26603	N	SER	O	136	108.145	30.388	23.280	1.00140.20
ATOM	26604	CA	SER	O	136	109.554	30.680	23.504	1.00138.49
ATOM	26605	C	SER	O	136	110.392	29.740	22.651	1.00137.13
ATOM	26606	O	SER	O	136	109.912	29.214	21.649	1.00136.44
ATOM	26607	CB	SER	O	136	109.899	30.491	24.984	1.00139.28
ATOM	26608	OG	SER	O	136	109.072	31.298	25.809	1.00138.92
ATOM	26609	N	ALA	O	137	111.643	29.535	23.046	1.00136.14
ATOM	26610	CA	ALA	O	137	112.522	28.643	22.308	1.00136.01
ATOM	26611	C	ALA	O	137	111.806	27.302	22.147	1.00135.98
ATOM	26612	O	ALA	O	137	111.178	27.047	21.119	1.00136.48
ATOM	26613	CB	ALA	O	137	113.835	28.466	23.060	1.00136.01
ATOM	26614	N	ASN	O	138	111.893	26.448	23.162	1.00135.34
ATOM	26615	CA	ASN	O	138	111.229	25.151	23.111	1.00134.48
ATOM	26616	C	ASN	O	138	110.040	25.146	24.067	1.00134.80
ATOM	26617	O	ASN	O	138	109.771	24.155	24.748	1.00135.00
ATOM	26618	CB	ASN	O	138	112.211	24.021	23.467	1.00133.36
ATOM	26619	CG	ASN	O	138	112.785	24.151	24.868	1.00131.71
ATOM	26620	OD1	ASN	O	138	112.053	24.150	25.856	1.00131.10
ATOM	26621	ND2	ASN	O	138	114.106	24.253	24.957	1.00130.95
ATOM	26622	N	SER	O	139	109.326	26.267	24.106	1.00134.93
ATOM	26623	CA	SER	O	139	108.164	26.412	24.975	1.00135.44
ATOM	26624	C	SER	O	139	107.020	27.118	24.255	1.00135.20
ATOM	26625	O	SER	O	139	107.218	27.744	23.213	1.00135.36
ATOM	26626	CB	SER	O	139	108.534	27.212	26.232	1.00136.13
ATOM	26627	OG	SER	O	139	109.530	26.557	26.997	1.00137.16
ATOM	26628	N	LEU	O	140	105.822	27.011	24.820	1.00134.58
ATOM	26629	CA	LEU	O	140	104.644	27.651	24.253	1.00133.91
ATOM	26630	C	LEU	O	140	103.857	28.342	25.356	1.00134.35
ATOM	26631	O	LEU	O	140	102.798	27.869	25.774	1.00135.02
ATOM	26632	CB	LEU	O	140	103.757	26.625	23.549	1.00132.27
ATOM	26633	CG	LEU	O	140	103.701	26.762	22.028	1.00131.01
ATOM	26634	CD1	LEU	O	140	102.760	25.719	21.461	1.00130.86
ATOM	26635	CD2	LEU	O	140	103.236	28.158	21.650	1.00129.02
ATOM	26636	N	THR	O	141	104.390	29.466	25.825	1.00134.06
ATOM	26637	CA	THR	O	141	103.757	30.236	26.883	1.00133.24
ATOM	26638	C	THR	O	141	102.404	30.782	26.424	1.00132.72
ATOM	26639	O	THR	O	141	102.316	31.876	25.862	1.00132.81
ATOM	26640	CB	THR	O	141	104.669	31.399	27.328	1.00133.28
ATOM	26641	OG1	THR	O	141	105.947	30.877	27.720	1.00133.19
ATOM	26642	CG2	THR	O	141	104.058	32.140	28.506	1.00133.86
ATOM	26643	N	LEU	O	142	101.356	29.997	26.665	1.00131.61
ATOM	26644	CA	LEU	O	142	99.989	30.361	26.297	1.00130.13
ATOM	26645	C	LEU	O	142	99.391	31.217	27.417	1.00129.55
ATOM	26646	O	LEU	O	142	99.586	30.926	28.597	1.00128.78
ATOM	26647	CB	LEU	O	142	99.145	29.095	26.117	1.00129.20
ATOM	26648	CG	LEU	O	142	99.806	27.906	25.413	1.00127.64
ATOM	26649	CD1	LEU	O	142	98.883	26.699	25.460	1.00127.98
ATOM	26650	CD2	LEU	O	142	100.134	28.277	23.986	1.00127.02
ATOM	26651	N	ILE	O	143	98.658	32.265	27.053	1.00128.71
ATOM	26652	CA	ILE	O	143	98.062	33.137	28.060	1.00127.32
ATOM	26653	C	ILE	O	143	96.584	33.454	27.822	1.00125.91
ATOM	26654	O	ILE	O	143	96.169	33.741	26.700	1.00125.56
ATOM	26655	CB	ILE	O	143	98.864	34.460	28.184	1.00127.82
ATOM	26656	CG1	ILE	O	143	98.241	35.350	29.266	1.00128.08
ATOM	26657	CG2	ILE	O	143	98.924	35.164	26.836	1.00126.86
ATOM	26658	CD1	ILE	O	143	99.077	36.563	29.631	1.00127.97

ATOM	26659	N	ASN	O	144	95.799	33.394	28.895	1.00124.35
ATOM	26660	CA	ASN	O	144	94.367	33.671	28.835	1.00122.64
ATOM	26661	C	ASN	O	144	93.971	34.782	29.805	1.00121.43
ATOM	26662	O	ASN	O	144	94.247	34.701	31.000	1.00120.26
ATOM	26663	CB	ASN	O	144	93.570	32.397	29.148	1.00122.67
ATOM	26664	CG	ASN	O	144	92.153	32.688	29.614	1.00122.10
ATOM	26665	OD1	ASN	O	144	91.422	33.453	28.986	1.00122.18
ATOM	26666	ND2	ASN	O	144	91.759	32.067	30.719	1.00121.53
ATOM	26667	N	PRO	O	145	93.321	35.841	29.290	1.00120.54
ATOM	26668	CA	PRO	O	145	92.873	36.987	30.085	1.00119.72
ATOM	26669	C	PRO	O	145	91.477	36.787	30.673	1.00119.35
ATOM	26670	O	PRO	O	145	91.232	37.092	31.836	1.00118.40
ATOM	26671	CB	PRO	O	145	92.903	38.122	29.074	1.00119.54
ATOM	26672	CG	PRO	O	145	92.407	37.436	27.833	1.00119.09
ATOM	26673	CD	PRO	O	145	93.168	36.117	27.847	1.00119.80
ATOM	26674	N	THR	O	146	90.566	36.278	29.851	1.00119.48
ATOM	26675	CA	THR	O	146	89.189	36.038	30.268	1.00119.24
ATOM	26676	C	THR	O	146	89.160	35.369	31.634	1.00119.66
ATOM	26677	O	THR	O	146	90.080	34.637	31.990	1.00119.91
ATOM	26678	CB	THR	O	146	88.464	35.116	29.275	1.00118.77
ATOM	26679	OG1	THR	O	146	88.872	33.763	29.499	1.00117.96
ATOM	26680	CG2	THR	O	146	88.812	35.497	27.846	1.00118.78
ATOM	26681	N	PRO	O	147	88.101	35.617	32.418	1.00120.07
ATOM	26682	CA	PRO	O	147	87.933	35.042	33.759	1.00120.47
ATOM	26683	C	PRO	O	147	87.444	33.583	33.802	1.00121.22
ATOM	26684	O	PRO	O	147	86.919	33.133	34.825	1.00120.53
ATOM	26685	CB	PRO	O	147	86.946	36.000	34.413	1.00120.29
ATOM	26686	CG	PRO	O	147	86.086	36.412	33.265	1.00119.77
ATOM	26687	CD	PRO	O	147	87.104	36.677	32.180	1.00119.61
ATOM	26688	N	TYR	O	148	87.619	32.854	32.696	1.00121.72
ATOM	26689	CA	TYR	O	148	87.208	31.446	32.606	1.00121.31
ATOM	26690	C	TYR	O	148	88.415	30.575	32.270	1.00121.19
ATOM	26691	O	TYR	O	148	89.386	31.051	31.680	1.00121.71
ATOM	26692	CB	TYR	O	148	86.159	31.248	31.507	1.00120.44
ATOM	26693	CG	TYR	O	148	85.103	32.324	31.440	1.00121.96
ATOM	26694	CD1	TYR	O	148	85.392	33.582	30.911	1.00121.99
ATOM	26695	CD2	TYR	O	148	83.814	32.091	31.913	1.00122.84
ATOM	26696	CE1	TYR	O	148	84.421	34.584	30.856	1.00121.72
ATOM	26697	CE2	TYR	O	148	82.836	33.085	31.864	1.00122.80
ATOM	26698	CZ	TYR	O	148	83.146	34.328	31.335	1.00121.96
ATOM	26699	OH	TYR	O	148	82.181	35.311	31.288	1.00121.12
ATOM	26700	N	TYR	O	149	88.362	29.300	32.640	1.00120.37
ATOM	26701	CA	TYR	O	149	89.462	28.399	32.326	1.00119.81
ATOM	26702	C	TYR	O	149	89.263	27.801	30.933	1.00120.33
ATOM	26703	O	TYR	O	149	88.612	26.765	30.783	1.00120.41
ATOM	26704	CB	TYR	O	149	89.548	27.258	33.335	1.00118.09
ATOM	26705	CG	TYR	O	149	90.090	27.620	34.693	1.00116.38
ATOM	26706	CD1	TYR	O	149	89.242	28.043	35.710	1.00117.23
ATOM	26707	CD2	TYR	O	149	91.447	27.485	34.979	1.00115.18
ATOM	26708	CE1	TYR	O	149	89.729	28.314	36.988	1.00116.65
ATOM	26709	CE2	TYR	O	149	91.949	27.753	36.250	1.00114.60
ATOM	26710	CZ	TYR	O	149	91.083	28.166	37.253	1.00115.07
ATOM	26711	OH	TYR	O	149	91.557	28.421	38.523	1.00112.61
ATOM	26712	N	LEU	O	150	89.822	28.452	29.919	1.00120.89
ATOM	26713	CA	LEU	O	150	89.703	27.970	28.547	1.00122.29
ATOM	26714	C	LEU	O	150	90.424	26.638	28.390	1.00123.35
ATOM	26715	O	LEU	O	150	91.598	26.607	28.015	1.00123.50
ATOM	26716	CB	LEU	O	150	90.323	28.970	27.573	1.00122.89
ATOM	26717	CG	LEU	O	150	89.931	30.439	27.714	1.00124.66
ATOM	26718	CD1	LEU	O	150	90.702	31.260	26.686	1.00124.91
ATOM	26719	CD2	LEU	O	150	88.428	30.596	27.529	1.00124.89
ATOM	26720	N	THR	O	151	89.730	25.541	28.673	1.00124.54

ATOM	26721	CA	THR	O	151	90.334	24.220	28.550	1.00124.58
ATOM	26722	C	THR	O	151	90.873	24.043	27.132	1.00125.84
ATOM	26723	O	THR	O	151	90.111	23.806	26.194	1.00125.98
ATOM	26724	CB	THR	O	151	89.310	23.111	28.843	1.00123.36
ATOM	26725	OG1	THR	O	151	88.763	23.302	30.154	1.00122.34
ATOM	26726	CG2	THR	O	151	89.974	21.745	28.770	1.00122.33
ATOM	26727	N	VAL	O	152	92.189	24.173	26.984	1.00126.93
ATOM	26728	CA	VAL	O	152	92.844	24.037	25.686	1.00127.47
ATOM	26729	C	VAL	O	152	92.951	22.575	25.267	1.00128.32
ATOM	26730	O	VAL	O	152	93.772	21.830	25.798	1.00127.94
ATOM	26731	CB	VAL	O	152	94.263	24.648	25.713	1.00127.08
ATOM	26732	CG1	VAL	O	152	94.922	24.499	24.348	1.00127.35
ATOM	26733	CG2	VAL	O	152	94.189	26.113	26.112	1.00126.33
ATOM	26734	N	THR	O	153	92.120	22.172	24.310	1.00129.83
ATOM	26735	CA	THR	O	153	92.122	20.797	23.825	1.00131.88
ATOM	26736	C	THR	O	153	92.777	20.651	22.457	1.00132.92
ATOM	26737	O	THR	O	153	92.649	21.524	21.594	1.00132.49
ATOM	26738	CB	THR	O	153	90.688	20.224	23.733	1.00132.57
ATOM	26739	OG1	THR	O	153	90.741	18.886	23.220	1.00132.25
ATOM	26740	CG2	THR	O	153	89.825	21.076	22.814	1.00132.09
ATOM	26741	N	GLU	O	154	93.480	19.534	22.276	1.00134.04
ATOM	26742	CA	GLU	O	154	94.165	19.231	21.024	1.00134.80
ATOM	26743	C	GLU	O	154	95.118	20.363	20.651	1.00135.57
ATOM	26744	O	GLU	O	154	95.095	20.854	19.522	1.00135.67
ATOM	26745	CB	GLU	O	154	93.132	19.032	19.915	1.00134.72
ATOM	26746	CG	GLU	O	154	91.907	18.253	20.366	1.00134.61
ATOM	26747	CD	GLU	O	154	90.812	18.235	19.323	1.00134.40
ATOM	26748	OE1	GLU	O	154	91.089	18.617	18.167	1.00134.50
ATOM	26749	OE2	GLU	O	154	89.677	17.834	19.657	1.00134.14
ATOM	26750	N	LEU	O	155	95.953	20.768	21.606	1.00136.64
ATOM	26751	CA	LEU	O	155	96.913	21.851	21.395	1.00137.84
ATOM	26752	C	LEU	O	155	97.916	21.510	20.301	1.00138.19
ATOM	26753	O	LEU	O	155	99.033	21.074	20.578	1.00137.95
ATOM	26754	CB	LEU	O	155	97.663	22.160	22.698	1.00138.46
ATOM	26755	CG	LEU	O	155	98.669	23.318	22.664	1.00137.92
ATOM	26756	CD1	LEU	O	155	97.960	24.604	22.262	1.00137.04
ATOM	26757	CD2	LEU	O	155	99.324	23.471	24.031	1.00137.02
ATOM	26758	N	ASN	O	156	97.509	21.720	19.056	1.00139.07
ATOM	26759	CA	ASN	O	156	98.360	21.432	17.911	1.00140.06
ATOM	26760	C	ASN	O	156	98.959	22.705	17.332	1.00141.06
ATOM	26761	O	ASN	O	156	98.660	23.815	17.780	1.00142.02
ATOM	26762	CB	ASN	O	156	97.556	20.722	16.817	1.00139.15
ATOM	26763	CG	ASN	O	156	96.983	19.401	17.278	1.00138.74
ATOM	26764	OD1	ASN	O	156	97.720	18.463	17.578	1.00138.39
ATOM	26765	ND2	ASN	O	156	95.658	19.320	17.340	1.00138.66
ATOM	26766	N	ALA	O	157	99.813	22.523	16.332	1.00141.13
ATOM	26767	CA	ALA	O	157	100.462	23.622	15.636	1.00140.58
ATOM	26768	C	ALA	O	157	100.454	23.219	14.172	1.00140.70
ATOM	26769	O	ALA	O	157	101.356	23.567	13.408	1.00140.46
ATOM	26770	CB	ALA	O	157	101.884	23.793	16.127	1.00139.85
ATOM	26771	N	GLY	O	158	99.421	22.467	13.800	1.00140.89
ATOM	26772	CA	GLY	O	158	99.286	21.990	12.438	1.00141.04
ATOM	26773	C	GLY	O	158	100.329	20.930	12.151	1.00140.83
ATOM	26774	O	GLY	O	158	100.437	20.430	11.028	1.00141.09
ATOM	26775	N	THR	O	159	101.100	20.586	13.178	1.00139.96
ATOM	26776	CA	THR	O	159	102.154	19.591	13.047	1.00138.49
ATOM	26777	C	THR	O	159	102.395	18.845	14.356	1.00137.82
ATOM	26778	O	THR	O	159	101.916	17.727	14.541	1.00137.39
ATOM	26779	CB	THR	O	159	103.480	20.250	12.609	1.00138.56
ATOM	26780	OG1	THR	O	159	103.809	21.309	13.519	1.00138.49
ATOM	26781	CG2	THR	O	159	103.363	20.813	11.194	1.00137.31
ATOM	26782	N	ARG	O	160	103.132	19.481	15.261	1.00137.61

ATOM	26783	CA	ARG	O	160	103.476	18.892	16.555	1.00137.24
ATOM	26784	C	ARG	O	160	102.371	19.062	17.606	1.00136.35
ATOM	26785	O	ARG	O	160	102.078	20.181	18.040	1.00136.23
ATOM	26786	CB	ARG	O	160	104.777	19.526	17.074	1.00137.35
ATOM	26787	CG	ARG	O	160	105.565	18.699	18.090	1.00137.73
ATOM	26788	CD	ARG	O	160	106.395	17.619	17.406	1.00138.32
ATOM	26789	NE	ARG	O	160	107.345	16.985	18.318	1.00139.06
ATOM	26790	CZ	ARG	O	160	108.262	16.096	17.944	1.00139.71
ATOM	26791	NH1	ARG	O	160	108.359	15.731	16.672	1.00139.71
ATOM	26792	NH2	ARG	O	160	109.087	15.571	18.840	1.00140.24
ATOM	26793	N	VAL	O	161	101.762	17.949	18.011	1.00135.07
ATOM	26794	CA	VAL	O	161	100.711	17.979	19.025	1.00133.44
ATOM	26795	C	VAL	O	161	101.371	18.066	20.400	1.00132.59
ATOM	26796	O	VAL	O	161	102.393	17.424	20.656	1.00131.99
ATOM	26797	CB	VAL	O	161	99.825	16.713	18.967	1.00132.89
ATOM	26798	CG1	VAL	O	161	100.667	15.472	19.217	1.00134.02
ATOM	26799	CG2	VAL	O	161	98.707	16.814	19.995	1.00131.96
ATOM	26800	N	LEU	O	162	100.784	18.863	21.285	1.00131.33
ATOM	26801	CA	LEU	O	162	101.340	19.040	22.616	1.00129.65
ATOM	26802	C	LEU	O	162	100.363	18.615	23.697	1.00129.29
ATOM	26803	O	LEU	O	162	99.414	17.876	23.437	1.00129.07
ATOM	26804	CB	LEU	O	162	101.728	20.505	22.824	1.00127.94
ATOM	26805	CG	LEU	O	162	102.479	21.163	21.664	1.00126.61
ATOM	26806	CD1	LEU	O	162	102.877	22.571	22.058	1.00124.92
ATOM	26807	CD2	LEU	O	162	103.701	20.337	21.301	1.00124.54
ATOM	26808	N	GLU	O	163	100.614	19.097	24.911	1.00129.60
ATOM	26809	CA	GLU	O	163	99.785	18.798	26.076	1.00129.97
ATOM	26810	C	GLU	O	163	98.642	19.808	26.224	1.00130.44
ATOM	26811	O	GLU	O	163	98.809	21.007	25.977	1.00130.40
ATOM	26812	CB	GLU	O	163	100.660	18.797	27.342	1.00128.85
ATOM	26813	CG	GLU	O	163	99.921	18.677	28.678	1.00127.16
ATOM	26814	CD	GLU	O	163	99.254	17.327	28.885	1.00126.77
ATOM	26815	OE1	GLU	O	163	99.909	16.292	28.645	1.00126.06
ATOM	26816	OE2	GLU	O	163	98.076	17.301	29.302	1.00126.27
ATOM	26817	N	ASN	O	164	97.474	19.306	26.611	1.00130.51
ATOM	26818	CA	ASN	O	164	96.302	20.145	26.808	1.00129.61
ATOM	26819	C	ASN	O	164	96.403	20.707	28.223	1.00129.42
ATOM	26820	O	ASN	O	164	96.295	19.964	29.200	1.00129.48
ATOM	26821	CB	ASN	O	164	95.017	19.314	26.669	1.00129.23
ATOM	26822	CG	ASN	O	164	94.971	18.505	25.380	1.00128.35
ATOM	26823	OD1	ASN	O	164	95.117	19.045	24.285	1.00128.56
ATOM	26824	ND2	ASN	O	164	94.761	17.200	25.511	1.00127.39
ATOM	26825	N	ALA	O	165	96.623	22.013	28.332	1.00129.15
ATOM	26826	CA	ALA	O	165	96.740	22.651	29.638	1.00129.17
ATOM	26827	C	ALA	O	165	95.482	23.437	30.000	1.00129.07
ATOM	26828	O	ALA	O	165	94.650	23.730	29.140	1.00129.19
ATOM	26829	CB	ALA	O	165	97.957	23.570	29.662	1.00128.95
ATOM	26830	N	LEU	O	166	95.353	23.771	31.280	1.00128.88
ATOM	26831	CA	LEU	O	166	94.209	24.531	31.776	1.00128.58
ATOM	26832	C	LEU	O	166	94.589	26.002	31.957	1.00128.36
ATOM	26833	O	LEU	O	166	94.803	26.453	33.083	1.00128.37
ATOM	26834	CB	LEU	O	166	93.736	23.954	33.119	1.00128.29
ATOM	26835	CG	LEU	O	166	92.587	24.684	33.824	1.00127.33
ATOM	26836	CD1	LEU	O	166	91.372	24.672	32.922	1.00128.22
ATOM	26837	CD2	LEU	O	166	92.268	24.027	35.156	1.00125.38
ATOM	26838	N	VAL	O	167	94.675	26.745	30.854	1.00128.01
ATOM	26839	CA	VAL	O	167	95.036	28.159	30.921	1.00127.58
ATOM	26840	C	VAL	O	167	94.047	28.861	31.846	1.00128.16
ATOM	26841	O	VAL	O	167	92.887	29.072	31.493	1.00127.50
ATOM	26842	CB	VAL	O	167	95.003	28.833	29.528	1.00127.11
ATOM	26843	CG1	VAL	O	167	95.757	30.150	29.579	1.00126.86
ATOM	26844	CG2	VAL	O	167	95.621	27.917	28.483	1.00126.37

ATOM	26845	N	PRO	O	168	94.505	29.231	33.052	1.00129.13
ATOM	26846	CA	PRO	O	168	93.703	29.904	34.076	1.00129.52
ATOM	26847	C	PRO	O	168	93.213	31.311	33.744	1.00129.66
ATOM	26848	O	PRO	O	168	93.724	31.968	32.832	1.00129.02
ATOM	26849	CB	PRO	O	168	94.626	29.886	35.292	1.00130.09
ATOM	26850	CG	PRO	O	168	95.974	30.046	34.674	1.00129.94
ATOM	26851	CD	PRO	O	168	95.905	29.091	33.500	1.00130.11
ATOM	26852	N	PRO	O	169	92.199	31.784	34.491	1.00129.80
ATOM	26853	CA	PRO	O	169	91.593	33.108	34.333	1.00130.69
ATOM	26854	C	PRO	O	169	92.621	34.230	34.429	1.00132.04
ATOM	26855	O	PRO	O	169	93.304	34.372	35.447	1.00131.38
ATOM	26856	CB	PRO	O	169	90.582	33.154	35.472	1.00129.75
ATOM	26857	CG	PRO	O	169	90.131	31.741	35.558	1.00128.82
ATOM	26858	CD	PRO	O	169	91.438	30.988	35.471	1.00128.96
ATOM	26859	N	MET	O	170	92.716	35.021	33.363	1.00134.00
ATOM	26860	CA	MET	O	170	93.649	36.139	33.298	1.00135.52
ATOM	26861	C	MET	O	170	95.097	35.656	33.342	1.00136.06
ATOM	26862	O	MET	O	170	95.993	36.282	32.770	1.00136.23
ATOM	26863	CB	MET	O	170	93.361	37.125	34.439	1.00136.05
ATOM	26864	CG	MET	O	170	92.203	38.072	34.138	1.00136.06
ATOM	26865	SD	MET	O	170	91.446	38.868	35.571	1.00139.29
ATOM	26866	CE	MET	O	170	89.801	38.131	35.539	1.00138.36
ATOM	26867	N	GLY	O	171	95.318	34.528	34.006	1.00136.01
ATOM	26868	CA	GLY	O	171	96.655	33.983	34.094	1.00136.71
ATOM	26869	C	GLY	O	171	97.077	33.373	32.773	1.00137.41
ATOM	26870	O	GLY	O	171	96.718	33.868	31.702	1.00136.82
ATOM	26871	N	GLU	O	172	97.841	32.287	32.853	1.00138.20
ATOM	26872	CA	GLU	O	172	98.322	31.597	31.667	1.00138.89
ATOM	26873	C	GLU	O	172	99.022	30.290	32.036	1.00139.49
ATOM	26874	O	GLU	O	172	99.195	29.974	33.215	1.00138.83
ATOM	26875	CB	GLU	O	172	99.282	32.501	30.890	1.00138.68
ATOM	26876	CG	GLU	O	172	100.550	32.885	31.636	1.00139.82
ATOM	26877	CD	GLU	O	172	101.432	33.837	30.841	1.00140.33
ATOM	26878	OE1	GLU	O	172	101.808	33.493	29.702	1.00140.35
ATOM	26879	OE2	GLU	O	172	101.754	34.929	31.356	1.00140.70
ATOM	26880	N	SER	O	173	99.413	29.536	31.015	1.00140.71
ATOM	26881	CA	SER	O	173	100.104	28.262	31.194	1.00142.06
ATOM	26882	C	SER	O	173	100.759	27.872	29.871	1.00142.41
ATOM	26883	O	SER	O	173	100.491	28.490	28.840	1.00142.85
ATOM	26884	CB	SER	O	173	99.117	27.176	31.633	1.00142.51
ATOM	26885	OG	SER	O	173	98.548	27.487	32.894	1.00143.93
ATOM	26886	N	THR	O	174	101.613	26.853	29.890	1.00 20.00
ATOM	26887	CG2	THR	O	174	103.498	28.706	28.570	1.00 20.00
ATOM	26888	OG1	THR	O	174	104.469	26.817	29.634	1.00 20.00
ATOM	26889	CB	THR	O	174	103.640	27.185	28.545	1.00 20.00
ATOM	26890	CA	THR	O	174	102.289	26.438	28.667	1.00 20.00
ATOM	26891	C	THR	O	174	102.559	24.946	28.583	1.00 20.00
ATOM	26892	O	THR	O	174	102.321	24.193	29.529	1.00 20.00
ATOM	26893	N	VAL	O	175	103.069	24.535	27.427	1.00142.96
ATOM	26894	CA	VAL	O	175	103.394	23.143	27.165	1.00144.18
ATOM	26895	C	VAL	O	175	104.743	23.052	26.458	1.00145.37
ATOM	26896	O	VAL	O	175	105.079	23.903	25.629	1.00145.12
ATOM	26897	CB	VAL	O	175	102.319	22.483	26.273	1.00143.78
ATOM	26898	CG1	VAL	O	175	102.698	21.040	25.978	1.00143.29
ATOM	26899	CG2	VAL	O	175	100.968	22.551	26.959	1.00143.00
ATOM	26900	N	LYS	O	176	105.513	22.019	26.795	1.00146.75
ATOM	26901	CA	LYS	O	176	106.825	21.807	26.195	1.00147.88
ATOM	26902	C	LYS	O	176	106.694	21.744	24.678	1.00148.35
ATOM	26903	O	LYS	O	176	106.235	20.745	24.121	1.00148.72
ATOM	26904	CB	LYS	O	176	107.448	20.508	26.721	1.00148.23
ATOM	26905	CG	LYS	O	176	108.832	20.196	26.152	1.00148.68
ATOM	26906	CD	LYS	O	176	109.849	21.297	26.455	1.00148.34

ATOM	26907	CE	LYS	O	176	110.172	21.393	27.941	1.00148.05
ATOM	26908	NZ	LYS	O	176	108.998	21.774	28.776	1.00147.09
ATOM	26909	N	LEU	O	177	107.096	22.827	24.020	1.00148.52
ATOM	26910	CA	LEU	O	177	107.032	22.928	22.567	1.00148.87
ATOM	26911	C	LEU	O	177	108.261	22.279	21.931	1.00149.12
ATOM	26912	O	LEU	O	177	109.339	22.875	21.900	1.00150.00
ATOM	26913	CB	LEU	O	177	106.941	24.402	22.167	1.00148.49
ATOM	26914	CG	LEU	O	177	106.982	24.788	20.689	1.00147.78
ATOM	26915	CD1	LEU	O	177	106.025	23.928	19.884	1.00147.42
ATOM	26916	CD2	LEU	O	177	106.622	26.258	20.566	1.00147.64
ATOM	26917	N	PRO	O	178	108.109	21.047	21.409	1.00148.90
ATOM	26918	CA	PRO	O	178	109.188	20.287	20.768	1.00148.50
ATOM	26919	C	PRO	O	178	109.983	21.057	19.717	1.00148.58
ATOM	26920	O	PRO	O	178	110.931	20.521	19.143	1.00148.80
ATOM	26921	CB	PRO	O	178	108.451	19.093	20.168	1.00148.34
ATOM	26922	CG	PRO	O	178	107.340	18.872	21.141	1.00148.03
ATOM	26923	CD	PRO	O	178	106.852	20.279	21.376	1.00148.48
ATOM	26924	N	SER	O	179	109.601	22.309	19.474	1.00148.62
ATOM	26925	CA	SER	O	179	110.270	23.148	18.481	1.00148.48
ATOM	26926	C	SER	O	179	110.102	22.489	17.115	1.00148.63
ATOM	26927	O	SER	O	179	110.817	22.799	16.157	1.00148.61
ATOM	26928	CB	SER	O	179	111.760	23.301	18.818	1.00148.05
ATOM	26929	OG	SER	O	179	111.943	23.933	20.074	1.00146.31
ATOM	26930	N	ASP	O	180	109.140	21.572	17.048	1.00148.43
ATOM	26931	CA	ASP	O	180	108.835	20.829	15.831	1.00148.00
ATOM	26932	C	ASP	O	180	107.422	21.188	15.364	1.00147.21
ATOM	26933	O	ASP	O	180	106.925	20.645	14.374	1.00147.02
ATOM	26934	CB	ASP	O	180	108.916	19.321	16.106	1.00148.25
ATOM	26935	CG	ASP	O	180	110.228	18.908	16.760	1.00147.56
ATOM	26936	OD1	ASP	O	180	111.145	19.750	16.857	1.00146.98
ATOM	26937	OD2	ASP	O	180	110.343	17.735	17.173	1.00147.69
ATOM	26938	N	ALA	O	181	106.786	22.105	16.091	1.00145.70
ATOM	26939	CA	ALA	O	181	105.428	22.544	15.781	1.00143.70
ATOM	26940	C	ALA	O	181	105.409	23.689	14.774	1.00142.22
ATOM	26941	O	ALA	O	181	104.341	24.181	14.400	1.00141.38
ATOM	26942	CB	ALA	O	181	104.722	22.963	17.058	1.00143.55
ATOM	26943	N	GLY	O	182	106.596	24.106	14.340	1.00140.86
ATOM	26944	CA	GLY	O	182	106.704	25.185	13.377	1.00138.53
ATOM	26945	C	GLY	O	182	106.276	26.522	13.945	1.00137.11
ATOM	26946	O	GLY	O	182	107.034	27.168	14.669	1.00136.58
ATOM	26947	N	SER	O	183	105.057	26.935	13.613	1.00135.60
ATOM	26948	CA	SER	O	183	104.515	28.200	14.087	1.00134.27
ATOM	26949	C	SER	O	183	103.006	28.282	13.849	1.00134.44
ATOM	26950	O	SER	O	183	102.357	29.240	14.275	1.00134.72
ATOM	26951	CB	SER	O	183	105.213	29.369	13.383	1.00133.23
ATOM	26952	OG	SER	O	183	106.596	29.412	13.694	1.00130.82
ATOM	26953	N	ASN	O	184	102.452	27.273	13.177	1.00134.30
ATOM	26954	CA	ASN	O	184	101.020	27.233	12.868	1.00134.07
ATOM	26955	C	ASN	O	184	100.121	27.236	14.100	1.00133.94
ATOM	26956	O	ASN	O	184	99.774	26.182	14.633	1.00133.49
ATOM	26957	CB	ASN	O	184	100.691	26.002	12.021	1.00133.74
ATOM	26958	CG	ASN	O	184	99.205	25.868	11.751	1.00133.97
ATOM	26959	OD1	ASN	O	184	98.583	26.764	11.181	1.00134.64
ATOM	26960	ND2	ASN	O	184	98.627	24.747	12.160	1.00133.60
ATOM	26961	N	ILE	O	185	99.729	28.429	14.535	1.00133.88
ATOM	26962	CA	ILE	O	185	98.871	28.573	15.702	1.00133.45
ATOM	26963	C	ILE	O	185	97.485	27.981	15.422	1.00132.97
ATOM	26964	O	ILE	O	185	96.691	28.560	14.678	1.00132.97
ATOM	26965	CB	ILE	O	185	98.705	30.066	16.091	1.00134.00
ATOM	26966	CG1	ILE	O	185	100.057	30.789	16.035	1.00132.92
ATOM	26967	CG2	ILE	O	185	98.120	30.171	17.491	1.00133.95
ATOM	26968	CD1	ILE	O	185	101.072	30.308	17.049	1.00131.07

ATOM	26969	N	THR	O	186	97.206	26.823	16.014	1.00132.13
ATOM	26970	CA	THR	O	186	95.917	26.153	15.848	1.00131.09
ATOM	26971	C	THR	O	186	95.534	25.483	17.163	1.00131.07
ATOM	26972	O	THR	O	186	96.354	24.804	17.779	1.00130.54
ATOM	26973	CB	THR	O	186	95.972	25.080	14.742	1.00130.22
ATOM	26974	OG1	THR	O	186	96.290	25.701	13.493	1.00129.99
ATOM	26975	CG2	THR	O	186	94.632	24.369	14.616	1.00129.16
ATOM	26976	N	TYR	O	187	94.290	25.675	17.595	1.00131.33
ATOM	26977	CA	TYR	O	187	93.831	25.087	18.852	1.00131.16
ATOM	26978	C	TYR	O	187	92.319	24.869	18.903	1.00130.39
ATOM	26979	O	TYR	O	187	91.592	25.215	17.969	1.00130.52
ATOM	26980	CB	TYR	O	187	94.260	25.976	20.030	1.00131.98
ATOM	26981	CG	TYR	O	187	93.557	27.323	20.092	1.00132.35
ATOM	26982	CD1	TYR	O	187	92.259	27.436	20.600	1.00131.84
ATOM	26983	CD2	TYR	O	187	94.185	28.481	19.626	1.00132.10
ATOM	26984	CE1	TYR	O	187	91.605	28.666	20.642	1.00131.03
ATOM	26985	CE2	TYR	O	187	93.539	29.716	19.663	1.00131.46
ATOM	26986	CZ	TYR	O	187	92.250	29.799	20.172	1.00131.11
ATOM	26987	OH	TYR	O	187	91.605	31.013	20.207	1.00130.90
ATOM	26988	N	ARG	O	188	91.864	24.295	20.013	1.00128.89
ATOM	26989	CA	ARG	O	188	90.449	24.019	20.241	1.00127.59
ATOM	26990	C	ARG	O	188	90.214	24.012	21.750	1.00126.81
ATOM	26991	O	ARG	O	188	91.122	23.683	22.512	1.00127.21
ATOM	26992	CB	ARG	O	188	90.077	22.661	19.636	1.00127.23
ATOM	26993	CG	ARG	O	188	90.190	22.615	18.117	1.00125.53
ATOM	26994	CD	ARG	O	188	90.042	21.206	17.583	1.00124.29
ATOM	26995	NE	ARG	O	188	88.745	20.618	17.904	1.00124.81
ATOM	26996	CZ	ARG	O	188	87.582	21.082	17.458	1.00124.20
ATOM	26997	NH1	ARG	O	188	87.550	22.149	16.672	1.00123.77
ATOM	26998	NH2	ARG	O	188	86.452	20.469	17.782	1.00123.05
ATOM	26999	N	THR	O	189	89.009	24.377	22.185	1.00125.70
ATOM	27000	CA	THR	O	189	88.705	24.410	23.617	1.00124.21
ATOM	27001	C	THR	O	189	87.352	23.809	23.992	1.00122.14
ATOM	27002	O	THR	O	189	86.404	23.816	23.211	1.00121.65
ATOM	27003	CB	THR	O	189	88.741	25.854	24.172	1.00125.39
ATOM	27004	OG1	THR	O	189	87.468	26.479	23.971	1.00126.42
ATOM	27005	CG2	THR	O	189	89.813	26.675	23.464	1.00126.32
ATOM	27006	N	ILE	O	190	87.274	23.304	25.214	1.00120.79
ATOM	27007	CA	ILE	O	190	86.055	22.698	25.724	1.00119.37
ATOM	27008	C	ILE	O	190	85.293	23.733	26.550	1.00119.63
ATOM	27009	O	ILE	O	190	85.900	24.623	27.153	1.00119.64
ATOM	27010	CB	ILE	O	190	86.395	21.474	26.591	1.00117.56
ATOM	27011	CG1	ILE	O	190	87.263	20.509	25.783	1.00114.25
ATOM	27012	CG2	ILE	O	190	85.122	20.785	27.052	1.00118.72
ATOM	27013	CD1	ILE	O	190	87.757	19.340	26.568	1.00112.17
ATOM	27014	N	ASN	O	191	83.967	23.605	26.577	1.00119.36
ATOM	27015	CA	ASN	O	191	83.107	24.541	27.303	1.00118.90
ATOM	27016	C	ASN	O	191	82.281	23.929	28.437	1.00118.23
ATOM	27017	O	ASN	O	191	82.503	22.786	28.837	1.00118.15
ATOM	27018	CB	ASN	O	191	82.173	25.233	26.312	1.00119.32
ATOM	27019	CG	ASN	O	191	81.542	24.260	25.335	1.00119.45
ATOM	27020	OD1	ASN	O	191	80.863	23.312	25.735	1.00118.54
ATOM	27021	ND2	ASN	O	191	81.769	24.487	24.045	1.00118.99
ATOM	27022	N	ASP	O	192	81.326	24.713	28.941	1.00117.92
ATOM	27023	CA	ASP	O	192	80.436	24.311	30.039	1.00117.77
ATOM	27024	C	ASP	O	192	79.739	22.983	29.778	1.00116.79
ATOM	27025	O	ASP	O	192	79.727	22.087	30.626	1.00115.86
ATOM	27026	CB	ASP	O	192	79.359	25.378	30.262	1.00118.41
ATOM	27027	CG	ASP	O	192	79.934	26.771	30.408	1.00119.93
ATOM	27028	OD1	ASP	O	192	81.175	26.899	30.485	1.00121.80
ATOM	27029	OD2	ASP	O	192	79.139	27.736	30.448	1.00119.69
ATOM	27030	N	TYR	O	193	79.143	22.887	28.597	1.00115.98

ATOM	27031	CA	TYR	O	193	78.414	21.706	28.166	1.00115.73
ATOM	27032	C	TYR	O	193	79.381	20.545	27.970	1.00117.43
ATOM	27033	O	TYR	O	193	79.191	19.456	28.522	1.00116.70
ATOM	27034	CB	TYR	O	193	77.692	22.030	26.856	1.00113.80
ATOM	27035	CG	TYR	O	193	76.910	23.329	26.915	1.00112.03
ATOM	27036	CD1	TYR	O	193	76.421	23.815	28.130	1.00111.09
ATOM	27037	CD2	TYR	O	193	76.671	24.080	25.763	1.00110.09
ATOM	27038	CE1	TYR	O	193	75.721	25.015	28.198	1.00110.28
ATOM	27039	CE2	TYR	O	193	75.971	25.286	25.822	1.00108.81
ATOM	27040	CZ	TYR	O	193	75.500	25.747	27.043	1.00109.84
ATOM	27041	OH	TYR	O	193	74.819	26.942	27.119	1.00108.82
ATOM	27042	N	GLY	O	194	80.425	20.800	27.186	1.00119.42
ATOM	27043	CA	GLY	O	194	81.430	19.791	26.905	1.00120.36
ATOM	27044	C	GLY	O	194	81.646	19.690	25.410	1.00121.08
ATOM	27045	O	GLY	O	194	81.783	18.594	24.867	1.00120.22
ATOM	27046	N	ALA	O	195	81.675	20.842	24.746	1.00122.60
ATOM	27047	CA	ALA	O	195	81.859	20.890	23.299	1.00124.84
ATOM	27048	C	ALA	O	195	83.142	21.602	22.881	1.00125.77
ATOM	27049	O	ALA	O	195	83.481	22.671	23.396	1.00125.59
ATOM	27050	CB	ALA	O	195	80.651	21.565	22.641	1.00125.31
ATOM	27051	N	LEU	O	196	83.851	20.995	21.936	1.00127.13
ATOM	27052	CA	LEU	O	196	85.093	21.558	21.425	1.00129.51
ATOM	27053	C	LEU	O	196	84.786	22.819	20.623	1.00131.15
ATOM	27054	O	LEU	O	196	83.819	22.855	19.863	1.00132.02
ATOM	27055	CB	LEU	O	196	85.798	20.553	20.506	1.00128.32
ATOM	27056	CG	LEU	O	196	86.169	19.153	20.997	1.00127.55
ATOM	27057	CD1	LEU	O	196	86.784	18.369	19.850	1.00125.70
ATOM	27058	CD2	LEU	O	196	87.142	19.245	22.157	1.00128.06
ATOM	27059	N	THR	O	197	85.606	23.852	20.792	1.00132.79
ATOM	27060	CA	THR	O	197	85.413	25.086	20.044	1.00134.30
ATOM	27061	C	THR	O	197	86.103	24.912	18.693	1.00135.62
ATOM	27062	O	THR	O	197	87.080	24.171	18.579	1.00135.02
ATOM	27063	CB	THR	O	197	86.018	26.305	20.780	1.00134.23
ATOM	27064	OG1	THR	O	197	87.431	26.127	20.939	1.00133.99
ATOM	27065	CG2	THR	O	197	85.363	26.472	22.145	1.00134.12
ATOM	27066	N	PRO	O	198	85.598	25.585	17.648	1.00137.44
ATOM	27067	CA	PRO	O	198	86.211	25.460	16.320	1.00138.98
ATOM	27068	C	PRO	O	198	87.691	25.841	16.306	1.00140.38
ATOM	27069	O	PRO	O	198	88.173	26.521	17.218	1.00140.05
ATOM	27070	CB	PRO	O	198	85.350	26.385	15.459	1.00139.09
ATOM	27071	CG	PRO	O	198	84.898	27.438	16.440	1.00138.07
ATOM	27072	CD	PRO	O	198	84.535	26.607	17.643	1.00137.58
ATOM	27073	N	LYS	O	199	88.408	25.387	15.278	1.00142.05
ATOM	27074	CA	LYS	O	199	89.835	25.685	15.138	1.00143.98
ATOM	27075	C	LYS	O	199	90.065	27.165	14.846	1.00145.55
ATOM	27076	O	LYS	O	199	90.469	27.537	13.742	1.00145.81
ATOM	27077	CB	LYS	O	199	90.460	24.856	14.010	1.00142.86
ATOM	27078	CG	LYS	O	199	90.639	23.384	14.313	1.00141.96
ATOM	27079	CD	LYS	O	199	91.383	22.704	13.178	1.00141.72
ATOM	27080	CE	LYS	O	199	91.592	21.227	13.450	1.00142.70
ATOM	27081	NZ	LYS	O	199	92.332	20.564	12.339	1.00142.36
ATOM	27082	N	MET	O	200	89.810	28.005	15.842	1.00146.91
ATOM	27083	CA	MET	O	200	89.993	29.440	15.693	1.00147.58
ATOM	27084	C	MET	O	200	91.484	29.713	15.547	1.00147.86
ATOM	27085	O	MET	O	200	92.263	28.803	15.259	1.00147.66
ATOM	27086	CB	MET	O	200	89.437	30.160	16.922	1.00148.80
ATOM	27087	CG	MET	O	200	88.079	29.630	17.361	1.00150.61
ATOM	27088	SD	MET	O	200	87.330	30.566	18.699	1.00152.73
ATOM	27089	CE	MET	O	200	86.127	31.552	17.791	1.00150.89
ATOM	27090	N	THR	O	201	91.883	30.965	15.745	1.00148.56
ATOM	27091	CA	THR	O	201	93.291	31.329	15.633	1.00148.97
ATOM	27092	C	THR	O	201	93.807	31.848	16.983	1.00149.11

ATOM	27093	O	THR	O	201	93.027	32.300	17.827	1.00148.68
ATOM	27094	CB	THR	O	201	93.507	32.417	14.539	1.00148.85
ATOM	27095	OG1	THR	O	201	92.631	32.169	13.429	1.00147.25
ATOM	27096	CG2	THR	O	201	94.952	32.388	14.036	1.00147.38
ATOM	27097	N	GLY	O	202	95.121	31.769	17.182	1.00149.09
ATOM	27098	CA	GLY	O	202	95.713	32.231	18.424	1.00148.74
ATOM	27099	C	GLY	O	202	95.971	33.727	18.441	1.00148.86
ATOM	27100	O	GLY	O	202	96.881	34.214	17.766	1.00147.78
ATOM	27101	N	VAL	O	203	95.164	34.447	19.223	1.00149.70
ATOM	27102	CA	VAL	O	203	95.264	35.903	19.357	1.00149.82
ATOM	27103	C	VAL	O	203	96.598	36.338	19.961	1.00151.07
ATOM	27104	O	VAL	O	203	96.642	36.813	21.093	1.00150.53
ATOM	27105	CB	VAL	O	203	94.121	36.464	20.250	1.00148.12
ATOM	27106	CG1	VAL	O	203	94.176	37.987	20.282	1.00145.73
ATOM	27107	CG2	VAL	O	203	92.774	35.987	19.733	1.00146.81
ATOM	27108	N	MET	O	204	97.675	36.182	19.193	1.00152.32
ATOM	27109	CA	MET	O	204	99.022	36.547	19.631	1.00152.87
ATOM	27110	C	MET	O	204	99.020	37.836	20.467	1.00153.56
ATOM	27111	O	MET	O	204	98.122	38.673	20.339	1.00153.55
ATOM	27112	CB	MET	O	204	99.932	36.718	18.409	1.00152.35
ATOM	27113	CG	MET	O	204	101.396	36.384	18.653	1.00151.96
ATOM	27114	SD	MET	O	204	101.688	34.614	18.854	1.00151.89
ATOM	27115	CE	MET	O	204	102.062	34.124	17.162	1.00151.25
ATOM	27116	N	GLU	O	205	100.030	37.988	21.318	1.00154.32
ATOM	27117	CA	GLU	O	205	100.144	39.159	22.186	1.00155.07
ATOM	27118	C	GLU	O	205	100.379	40.461	21.423	1.00154.90
ATOM	27119	O	GLU	O	205	99.528	41.371	21.532	1.00154.41
ATOM	27120	CB	GLU	O	205	101.273	38.944	23.197	1.00155.95
ATOM	27121	CG	GLU	O	205	102.607	38.586	22.563	1.00157.68
ATOM	27122	CD	GLU	O	205	103.697	38.350	23.589	1.00158.86
ATOM	27123	OE1	GLU	O	205	103.428	38.510	24.801	1.00158.68
ATOM	27124	OE2	GLU	O	205	104.825	38.004	23.179	1.00159.88
ATOM	27125	OXT	GLU	O	205	101.415	40.558	20.731	1.00155.04
ATOM	27126	N	PHE	P	1	37.994	29.500	7.436	1.00 70.00
ATOM	27127	CA	PHE	P	1	38.892	29.056	8.540	1.00 71.45
ATOM	27128	C	PHE	P	1	40.252	29.705	8.354	1.00 74.45
ATOM	27129	O	PHE	P	1	40.739	29.839	7.226	1.00 75.55
ATOM	27130	CB	PHE	P	1	39.016	27.527	8.524	1.00 67.84
ATOM	27131	CG	PHE	P	1	39.928	26.958	9.588	1.00 62.63
ATOM	27132	CD1	PHE	P	1	41.299	26.862	9.373	1.00 61.06
ATOM	27133	CD2	PHE	P	1	39.410	26.474	10.786	1.00 60.45
ATOM	27134	CE1	PHE	P	1	42.135	26.287	10.328	1.00 57.32
ATOM	27135	CE2	PHE	P	1	40.242	25.901	11.742	1.00 56.97
ATOM	27136	CZ	PHE	P	1	41.605	25.808	11.511	1.00 55.31
ATOM	27137	N	ALA	P	2	40.857	30.118	9.465	1.00 77.16
ATOM	27138	CA	ALA	P	2	42.168	30.755	9.424	1.00 77.72
ATOM	27139	C	ALA	P	2	42.924	30.635	10.755	1.00 77.44
ATOM	27140	O	ALA	P	2	42.318	30.512	11.829	1.00 73.91
ATOM	27141	CB	ALA	P	2	42.019	32.224	9.021	1.00 77.97
ATOM	27142	N	CYS	P	3	44.253	30.668	10.655	1.00 78.21
ATOM	27143	CA	CYS	P	3	45.143	30.562	11.806	1.00 78.54
ATOM	27144	C	CYS	P	3	46.169	31.678	11.788	1.00 79.89
ATOM	27145	O	CYS	P	3	46.447	32.261	10.737	1.00 80.39
ATOM	27146	CB	CYS	P	3	45.911	29.250	11.769	1.00 76.67
ATOM	27147	SG	CYS	P	3	44.914	27.768	11.499	1.00 74.61
ATOM	27148	N	LYS	P	4	46.751	31.951	12.953	1.00 80.92
ATOM	27149	CA	LYS	P	4	47.773	32.982	13.076	1.00 82.92
ATOM	27150	C	LYS	P	4	48.752	32.569	14.154	1.00 83.70
ATOM	27151	O	LYS	P	4	48.362	31.989	15.162	1.00 83.54
ATOM	27152	CB	LYS	P	4	47.140	34.348	13.413	1.00 84.64
ATOM	27153	CG	LYS	P	4	46.522	34.507	14.819	1.00 85.99
ATOM	27154	CD	LYS	P	4	47.493	35.192	15.796	1.00 85.43

ATOM	27155	CE	LYS	P	4	46.807	35.680	17.076	1.00	84.19
ATOM	27156	NZ	LYS	P	4	46.277	34.579	17.922	1.00	84.29
ATOM	27157	N	THR	P	5	50.029	32.852	13.934	1.00	86.42
ATOM	27158	CA	THR	P	5	51.052	32.507	14.909	1.00	90.93
ATOM	27159	C	THR	P	5	51.054	33.525	16.065	1.00	92.48
ATOM	27160	O	THR	P	5	50.589	34.656	15.908	1.00	93.14
ATOM	27161	CB	THR	P	5	52.455	32.462	14.246	1.00	91.21
ATOM	27162	OG1	THR	P	5	53.367	31.758	15.098	1.00	93.00
ATOM	27163	CG2	THR	P	5	52.988	33.870	14.014	1.00	89.73
ATOM	27164	N	ALA	P	6	51.571	33.118	17.223	1.00	93.50
ATOM	27165	CA	ALA	P	6	51.624	33.994	18.388	1.00	94.26
ATOM	27166	C	ALA	P	6	52.664	35.098	18.204	1.00	95.78
ATOM	27167	O	ALA	P	6	52.837	35.949	19.076	1.00	95.74
ATOM	27168	CB	ALA	P	6	51.940	33.176	19.637	1.00	92.58
ATOM	27169	N	ASN	P	7	53.350	35.084	17.064	1.00	97.66
ATOM	27170	CA	ASN	P	7	54.376	36.081	16.770	1.00	99.48
ATOM	27171	C	ASN	P	7	53.859	37.056	15.719	1.00	99.30
ATOM	27172	O	ASN	P	7	54.611	37.862	15.169	1.00	99.23
ATOM	27173	CB	ASN	P	7	55.655	35.389	16.271	1.00	101.66
ATOM	27174	CG	ASN	P	7	56.894	36.262	16.422	1.00	102.82
ATOM	27175	OD1	ASN	P	7	57.062	37.256	15.714	1.00	104.09
ATOM	27176	ND2	ASN	P	7	57.766	35.892	17.354	1.00	102.90
ATOM	27177	N	GLY	P	8	52.566	36.966	15.437	1.00	99.33
ATOM	27178	CA	GLY	P	8	51.967	37.859	14.466	1.00	100.26
ATOM	27179	C	GLY	P	8	51.742	37.273	13.087	1.00	100.06
ATOM	27180	O	GLY	P	8	50.731	37.567	12.448	1.00	99.58
ATOM	27181	N	THR	P	9	52.677	36.452	12.621	1.00	100.31
ATOM	27182	CA	THR	P	9	52.556	35.843	11.298	1.00	100.33
ATOM	27183	C	THR	P	9	51.308	34.966	11.216	1.00	100.05
ATOM	27184	O	THR	P	9	51.056	34.149	12.102	1.00	99.94
ATOM	27185	CB	THR	P	9	53.794	35.001	10.969	1.00	100.28
ATOM	27186	OG1	THR	P	9	54.973	35.763	11.266	1.00	101.04
ATOM	27187	CG2	THR	P	9	53.801	34.619	9.492	1.00	100.45
ATOM	27188	N	ALA	P	10	50.531	35.133	10.149	1.00	99.29
ATOM	27189	CA	ALA	P	10	49.302	34.366	9.993	1.00	98.33
ATOM	27190	C	ALA	P	10	49.105	33.733	8.621	1.00	98.69
ATOM	27191	O	ALA	P	10	49.736	34.117	7.630	1.00	99.50
ATOM	27192	CB	ALA	P	10	48.108	35.245	10.325	1.00	96.68
ATOM	27193	N	ILE	P	11	48.207	32.754	8.585	1.00	98.57
ATOM	27194	CA	ILE	P	11	47.875	32.029	7.366	1.00	98.20
ATOM	27195	C	ILE	P	11	46.408	32.278	7.025	1.00	95.96
ATOM	27196	O	ILE	P	11	45.509	31.814	7.731	1.00	96.11
ATOM	27197	CB	ILE	P	11	48.086	30.516	7.550	1.00	100.74
ATOM	27198	CG1	ILE	P	11	49.549	30.228	7.908	1.00	104.03
ATOM	27199	CG2	ILE	P	11	47.695	29.795	6.287	1.00	101.16
ATOM	27200	CD1	ILE	P	11	49.874	28.753	8.128	1.00	105.03
ATOM	27201	N	PRO	P	12	46.150	33.004	5.925	1.00	93.47
ATOM	27202	CA	PRO	P	12	44.800	33.339	5.465	1.00	91.15
ATOM	27203	C	PRO	P	12	43.929	32.133	5.131	1.00	90.13
ATOM	27204	O	PRO	P	12	44.352	30.987	5.265	1.00	90.56
ATOM	27205	CB	PRO	P	12	45.068	34.209	4.244	1.00	90.96
ATOM	27206	CG	PRO	P	12	46.317	33.610	3.687	1.00	91.22
ATOM	27207	CD	PRO	P	12	47.157	33.420	4.930	1.00	93.31
ATOM	27208	N	ILE	P	13	42.702	32.407	4.703	1.00	89.10
ATOM	27209	CA	ILE	P	13	41.770	31.353	4.328	1.00	87.19
ATOM	27210	C	ILE	P	13	42.379	30.649	3.121	1.00	87.99
ATOM	27211	O	ILE	P	13	43.246	31.207	2.447	1.00	88.44
ATOM	27212	CB	ILE	P	13	40.388	31.937	3.942	1.00	84.66
ATOM	27213	CG1	ILE	P	13	39.854	32.807	5.084	1.00	82.20
ATOM	27214	CG2	ILE	P	13	39.414	30.812	3.637	1.00	85.10
ATOM	27215	CD1	ILE	P	13	38.444	33.287	4.892	1.00	77.12
ATOM	27216	N	GLY	P	14	41.933	29.429	2.847	1.00	88.58

ATOM	27217	CA	GLY	P	14	42.479	28.694	1.718	1.00	87.48
ATOM	27218	C	GLY	P	14	43.799	28.048	2.093	1.00	86.00
ATOM	27219	O	GLY	P	14	44.519	27.532	1.241	1.00	85.06
ATOM	27220	N	GLY	P	15	44.107	28.076	3.385	1.00	85.71
ATOM	27221	CA	GLY	P	15	45.348	27.506	3.866	1.00	86.19
ATOM	27222	C	GLY	P	15	46.447	28.537	3.734	1.00	86.99
ATOM	27223	O	GLY	P	15	46.173	29.733	3.641	1.00	87.28
ATOM	27224	N	GLY	P	16	47.693	28.084	3.725	1.00	87.06
ATOM	27225	CA	GLY	P	16	48.796	29.010	3.588	1.00	87.71
ATOM	27226	C	GLY	P	16	50.138	28.417	3.953	1.00	88.57
ATOM	27227	O	GLY	P	16	50.456	27.282	3.583	1.00	88.37
ATOM	27228	N	SER	P	17	50.926	29.190	4.690	1.00	88.47
ATOM	27229	CA	SER	P	17	52.249	28.757	5.092	1.00	89.90
ATOM	27230	C	SER	P	17	52.874	29.813	5.984	1.00	90.15
ATOM	27231	O	SER	P	17	52.844	31.000	5.661	1.00	89.88
ATOM	27232	CB	SER	P	17	53.115	28.555	3.855	1.00	91.10
ATOM	27233	OG	SER	P	17	53.161	29.744	3.086	1.00	93.86
ATOM	27234	N	ALA	P	18	53.446	29.375	7.102	1.00	91.25
ATOM	27235	CA	ALA	P	18	54.069	30.293	8.049	1.00	92.19
ATOM	27236	C	ALA	P	18	55.239	29.674	8.812	1.00	92.34
ATOM	27237	O	ALA	P	18	55.315	28.457	8.994	1.00	91.33
ATOM	27238	CB	ALA	P	18	53.021	30.810	9.035	1.00	90.85
ATOM	27239	N	ASN	P	19	56.143	30.537	9.260	1.00	92.44
ATOM	27240	CA	ASN	P	19	57.316	30.120	10.008	1.00	92.82
ATOM	27241	C	ASN	P	19	57.088	30.304	11.498	1.00	93.47
ATOM	27242	O	ASN	P	19	56.853	31.418	11.971	1.00	93.51
ATOM	27243	CB	ASN	P	19	58.524	30.951	9.590	1.00	93.46
ATOM	27244	CG	ASN	P	19	59.139	30.487	8.293	1.00	95.13
ATOM	27245	OD1	ASN	P	19	58.442	30.163	7.326	1.00	95.02
ATOM	27246	ND2	ASN	P	19	60.467	30.470	8.258	1.00	96.93
ATOM	27247	N	VAL	P	20	57.165	29.212	12.242	1.00	93.54
ATOM	27248	CA	VAL	P	20	56.978	29.282	13.679	1.00	94.91
ATOM	27249	C	VAL	P	20	58.352	29.207	14.347	1.00	96.53
ATOM	27250	O	VAL	P	20	58.812	28.118	14.704	1.00	97.91
ATOM	27251	CB	VAL	P	20	56.105	28.115	14.171	1.00	94.17
ATOM	27252	CG1	VAL	P	20	55.594	28.396	15.579	1.00	93.07
ATOM	27253	CG2	VAL	P	20	54.956	27.899	13.209	1.00	94.53
ATOM	27254	N	TYR	P	21	59.008	30.358	14.505	1.00	96.03
ATOM	27255	CA	TYR	P	21	60.329	30.404	15.133	1.00	94.37
ATOM	27256	C	TYR	P	21	60.215	30.206	16.644	1.00	95.62
ATOM	27257	O	TYR	P	21	60.421	31.139	17.412	1.00	96.78
ATOM	27258	CB	TYR	P	21	61.009	31.747	14.863	1.00	90.05
ATOM	27259	CG	TYR	P	21	61.008	32.162	13.419	1.00	86.91
ATOM	27260	CD1	TYR	P	21	59.909	32.803	12.856	1.00	84.88
ATOM	27261	CD2	TYR	P	21	62.100	31.894	12.604	1.00	88.15
ATOM	27262	CE1	TYR	P	21	59.898	33.164	11.510	1.00	85.61
ATOM	27263	CE2	TYR	P	21	62.100	32.244	11.255	1.00	87.68
ATOM	27264	CZ	TYR	P	21	60.997	32.876	10.711	1.00	86.13
ATOM	27265	OH	TYR	P	21	60.985	33.177	9.361	1.00	84.85
ATOM	27266	N	VAL	P	22	59.888	28.994	17.073	1.00	96.66
ATOM	27267	CA	VAL	P	22	59.750	28.719	18.497	1.00	97.76
ATOM	27268	C	VAL	P	22	61.102	28.618	19.194	1.00	98.09
ATOM	27269	O	VAL	P	22	62.135	28.408	18.550	1.00	98.80
ATOM	27270	CB	VAL	P	22	58.981	27.406	18.742	1.00	99.48
ATOM	27271	CG1	VAL	P	22	57.539	27.557	18.292	1.00	100.79
ATOM	27272	CG2	VAL	P	22	59.654	26.259	17.995	1.00	100.39
ATOM	27273	N	ASN	P	23	61.087	28.776	20.516	1.00	97.66
ATOM	27274	CA	ASN	P	23	62.302	28.691	21.316	1.00	96.00
ATOM	27275	C	ASN	P	23	62.514	27.232	21.678	1.00	96.74
ATOM	27276	O	ASN	P	23	61.596	26.415	21.557	1.00	96.85
ATOM	27277	CB	ASN	P	23	62.179	29.527	22.596	1.00	92.79
ATOM	27278	CG	ASN	P	23	61.922	30.997	22.314	1.00	91.85

ATOM	27279	OD1	ASN	P	23	62.537	31.592	21.428	1.00	92.13
ATOM	27280	ND2	ASN	P	23	61.017	31.592	23.075	1.00	91.31
ATOM	27281	N	LEU	P	24	63.722	26.907	22.127	1.00	96.79
ATOM	27282	CA	LEU	P	24	64.051	25.538	22.498	1.00	96.39
ATOM	27283	C	LEU	P	24	64.899	25.477	23.763	1.00	96.97
ATOM	27284	O	LEU	P	24	65.890	26.200	23.891	1.00	96.17
ATOM	27285	CB	LEU	P	24	64.797	24.867	21.347	1.00	96.51
ATOM	27286	CG	LEU	P	24	64.099	24.932	19.989	1.00	96.57
ATOM	27287	CD1	LEU	P	24	65.019	24.401	18.902	1.00	94.93
ATOM	27288	CD2	LEU	P	24	62.806	24.133	20.056	1.00	96.74
ATOM	27289	N	ALA	P	25	64.498	24.613	24.695	1.00	97.66
ATOM	27290	CA	ALA	P	25	65.223	24.431	25.949	1.00	98.54
ATOM	27291	C	ALA	P	25	66.667	24.136	25.573	1.00	99.95
ATOM	27292	O	ALA	P	25	66.966	23.077	25.032	1.00	101.94
ATOM	27293	CB	ALA	P	25	64.632	23.265	26.729	1.00	96.30
ATOM	27294	N	PRO	P	26	67.582	25.078	25.842	1.00	100.90
ATOM	27295	CA	PRO	P	26	69.003	24.913	25.519	1.00	100.73
ATOM	27296	C	PRO	P	26	69.773	23.757	26.170	1.00	100.24
ATOM	27297	O	PRO	P	26	70.898	23.476	25.765	1.00	100.83
ATOM	27298	CB	PRO	P	26	69.596	26.273	25.886	1.00	101.37
ATOM	27299	CG	PRO	P	26	68.450	27.212	25.641	1.00	100.63
ATOM	27300	CD	PRO	P	26	67.306	26.460	26.271	1.00	100.92
ATOM	27301	N	VAL	P	27	69.199	23.085	27.166	1.00	99.79
ATOM	27302	CA	VAL	P	27	69.922	21.980	27.806	1.00	100.02
ATOM	27303	C	VAL	P	27	69.079	20.764	28.222	1.00	100.72
ATOM	27304	O	VAL	P	27	68.370	20.793	29.236	1.00	100.21
ATOM	27305	CB	VAL	P	27	70.705	22.476	29.042	1.00	99.53
ATOM	27306	CG1	VAL	P	27	71.441	21.318	29.689	1.00	98.77
ATOM	27307	CG2	VAL	P	27	71.694	23.557	28.633	1.00	98.92
ATOM	27308	N	VAL	P	28	69.188	19.691	27.437	1.00	100.99
ATOM	27309	CA	VAL	P	28	68.453	18.448	27.688	1.00	99.49
ATOM	27310	C	VAL	P	28	69.431	17.282	27.848	1.00	99.74
ATOM	27311	O	VAL	P	28	70.611	17.406	27.529	1.00	98.84
ATOM	27312	CB	VAL	P	28	67.510	18.101	26.509	1.00	98.78
ATOM	27313	CG1	VAL	P	28	66.339	17.264	27.012	1.00	95.99
ATOM	27314	CG2	VAL	P	28	67.039	19.370	25.809	1.00	95.43
ATOM	27315	N	ASN	P	29	68.933	16.150	28.337	1.00	100.86
ATOM	27316	CA	ASN	P	29	69.767	14.965	28.519	1.00	102.67
ATOM	27317	C	ASN	P	29	69.003	13.672	28.244	1.00	102.92
ATOM	27318	O	ASN	P	29	67.845	13.702	27.829	1.00	104.11
ATOM	27319	CB	ASN	P	29	70.362	14.934	29.932	1.00	104.03
ATOM	27320	CG	ASN	P	29	71.640	15.763	30.050	1.00	104.95
ATOM	27321	OD1	ASN	P	29	72.637	15.483	29.379	1.00	106.86
ATOM	27322	ND2	ASN	P	29	71.614	16.782	30.906	1.00	102.35
ATOM	27323	N	VAL	P	30	69.659	12.540	28.482	1.00	103.31
ATOM	27324	CA	VAL	P	30	69.070	11.219	28.239	1.00	104.04
ATOM	27325	C	VAL	P	30	67.768	10.917	28.981	1.00	103.52
ATOM	27326	O	VAL	P	30	67.739	10.821	30.211	1.00	103.55
ATOM	27327	CB	VAL	P	30	70.085	10.088	28.563	1.00	104.72
ATOM	27328	CG1	VAL	P	30	69.409	8.723	28.461	1.00	103.61
ATOM	27329	CG2	VAL	P	30	71.260	10.163	27.601	1.00	104.75
ATOM	27330	N	GLY	P	31	66.697	10.740	28.213	1.00	102.71
ATOM	27331	CA	GLY	P	31	65.403	10.439	28.797	1.00	100.91
ATOM	27332	C	GLY	P	31	64.588	11.697	28.969	1.00	99.95
ATOM	27333	O	GLY	P	31	63.414	11.744	28.609	1.00	99.71
ATOM	27334	N	GLN	P	32	65.233	12.722	29.518	1.00	99.40
ATOM	27335	CA	GLN	P	32	64.599	14.015	29.759	1.00	98.40
ATOM	27336	C	GLN	P	32	63.983	14.554	28.456	1.00	96.54
ATOM	27337	O	GLN	P	32	64.676	14.667	27.434	1.00	95.55
ATOM	27338	CB	GLN	P	32	65.641	15.004	30.310	1.00	98.49
ATOM	27339	CG	GLN	P	32	65.045	16.188	31.059	1.00	100.81
ATOM	27340	CD	GLN	P	32	66.091	17.208	31.480	1.00	101.77

ATOM	27341	OE1	GLN	P	32	66.735	17.839	30.640	1.00102.99
ATOM	27342	NE2	GLN	P	32	66.263	17.375	32.787	1.00102.33
ATOM	27343	N	ASN	P	33	62.689	14.886	28.502	1.00 92.57
ATOM	27344	CA	ASN	P	33	61.983	15.394	27.329	1.00 88.63
ATOM	27345	C	ASN	P	33	62.319	16.804	26.884	1.00 86.43
ATOM	27346	O	ASN	P	33	62.681	17.661	27.687	1.00 85.77
ATOM	27347	CB	ASN	P	33	60.481	15.289	27.526	1.00 88.10
ATOM	27348	CG	ASN	P	33	59.945	13.947	27.109	1.00 89.36
ATOM	27349	OD1	ASN	P	33	60.125	12.949	27.805	1.00 90.20
ATOM	27350	ND2	ASN	P	33	59.293	13.908	25.952	1.00 89.56
ATOM	27351	N	LEU	P	34	62.173	17.026	25.583	1.00 84.34
ATOM	27352	CA	LEU	P	34	62.460	18.308	24.951	1.00 83.54
ATOM	27353	C	LEU	P	34	61.195	18.896	24.341	1.00 83.86
ATOM	27354	O	LEU	P	34	61.229	19.481	23.258	1.00 83.98
ATOM	27355	CB	LEU	P	34	63.522	18.111	23.865	1.00 83.14
ATOM	27356	CG	LEU	P	34	63.813	19.219	22.852	1.00 82.30
ATOM	27357	CD1	LEU	P	34	63.966	20.554	23.551	1.00 84.34
ATOM	27358	CD2	LEU	P	34	65.067	18.862	22.088	1.00 82.89
ATOM	27359	N	VAL	P	35	60.083	18.741	25.057	1.00 83.94
ATOM	27360	CA	VAL	P	35	58.772	19.226	24.619	1.00 82.81
ATOM	27361	C	VAL	P	35	58.808	20.498	23.770	1.00 81.90
ATOM	27362	O	VAL	P	35	59.533	21.445	24.075	1.00 80.96
ATOM	27363	CB	VAL	P	35	57.838	19.476	25.832	1.00 83.10
ATOM	27364	CG1	VAL	P	35	56.420	19.759	25.347	1.00 83.89
ATOM	27365	CG2	VAL	P	35	57.855	18.273	26.768	1.00 82.25
ATOM	27366	N	VAL	P	36	58.013	20.501	22.702	1.00 81.76
ATOM	27367	CA	VAL	P	36	57.914	21.636	21.787	1.00 81.85
ATOM	27368	C	VAL	P	36	56.442	21.914	21.486	1.00 82.15
ATOM	27369	O	VAL	P	36	55.964	21.637	20.385	1.00 82.35
ATOM	27370	CB	VAL	P	36	58.639	21.343	20.460	1.00 81.84
ATOM	27371	CG1	VAL	P	36	58.503	22.530	19.506	1.00 80.52
ATOM	27372	CG2	VAL	P	36	60.102	21.035	20.736	1.00 83.55
ATOM	27373	N	ASP	P	37	55.733	22.462	22.471	1.00 82.16
ATOM	27374	CA	ASP	P	37	54.307	22.766	22.334	1.00 81.61
ATOM	27375	C	ASP	P	37	54.007	23.992	21.485	1.00 79.55
ATOM	27376	O	ASP	P	37	54.602	25.052	21.672	1.00 77.01
ATOM	27377	CB	ASP	P	37	53.671	22.965	23.711	1.00 82.57
ATOM	27378	CG	ASP	P	37	52.181	23.259	23.630	1.00 81.40
ATOM	27379	OD1	ASP	P	37	51.602	23.128	22.530	1.00 81.40
ATOM	27380	OD2	ASP	P	37	51.593	23.614	24.669	1.00 81.06
ATOM	27381	N	LEU	P	38	53.061	23.848	20.563	1.00 78.91
ATOM	27382	CA	LEU	P	38	52.697	24.964	19.706	1.00 79.52
ATOM	27383	C	LEU	P	38	51.262	25.460	19.936	1.00 79.08
ATOM	27384	O	LEU	P	38	50.814	26.430	19.312	1.00 76.30
ATOM	27385	CB	LEU	P	38	52.942	24.597	18.239	1.00 77.74
ATOM	27386	CG	LEU	P	38	54.384	24.143	18.018	1.00 74.20
ATOM	27387	CD1	LEU	P	38	54.427	22.640	18.215	1.00 76.22
ATOM	27388	CD2	LEU	P	38	54.876	24.511	16.631	1.00 72.08
ATOM	27389	N	SER	P	39	50.544	24.798	20.838	1.00 78.76
ATOM	27390	CA	SER	P	39	49.202	25.241	21.172	1.00 80.39
ATOM	27391	C	SER	P	39	49.500	26.415	22.093	1.00 81.25
ATOM	27392	O	SER	P	39	48.956	26.532	23.190	1.00 82.16
ATOM	27393	CB	SER	P	39	48.420	24.158	21.926	1.00 81.50
ATOM	27394	OG	SER	P	39	48.853	24.038	23.270	1.00 82.90
ATOM	27395	N	THR	P	40	50.407	27.264	21.620	1.00 82.02
ATOM	27396	CA	THR	P	40	50.865	28.451	22.331	1.00 83.37
ATOM	27397	C	THR	P	40	51.745	29.216	21.345	1.00 83.71
ATOM	27398	O	THR	P	40	52.392	30.203	21.688	1.00 83.69
ATOM	27399	CB	THR	P	40	51.708	28.073	23.568	1.00 82.57
ATOM	27400	OG1	THR	P	40	50.913	27.292	24.471	1.00 81.56
ATOM	27401	CG2	THR	P	40	52.202	29.323	24.282	1.00 82.30
ATOM	27402	N	GLN	P	41	51.761	28.741	20.108	1.00 83.58

ATOM	27403	CA	GLN	P	41	52.552	29.371	19.068	1.00	84.24
ATOM	27404	C	GLN	P	41	51.735	29.488	17.800	1.00	84.38
ATOM	27405	O	GLN	P	41	52.154	30.141	16.841	1.00	83.25
ATOM	27406	CB	GLN	P	41	53.809	28.556	18.799	1.00	86.06
ATOM	27407	CG	GLN	P	41	54.819	28.624	19.920	1.00	88.44
ATOM	27408	CD	GLN	P	41	55.438	29.994	20.045	1.00	89.57
ATOM	27409	OE1	GLN	P	41	56.305	30.218	20.890	1.00	91.25
ATOM	27410	NE2	GLN	P	41	54.999	30.924	19.198	1.00	89.14
ATOM	27411	N	ILE	P	42	50.569	28.845	17.802	1.00	83.74
ATOM	27412	CA	ILE	P	42	49.663	28.878	16.659	1.00	83.36
ATOM	27413	C	ILE	P	42	48.217	28.714	17.107	1.00	83.50
ATOM	27414	O	ILE	P	42	47.897	27.821	17.894	1.00	84.52
ATOM	27415	CB	ILE	P	42	49.960	27.751	15.651	1.00	84.12
ATOM	27416	CG1	ILE	P	42	51.381	27.880	15.102	1.00	84.08
ATOM	27417	CG2	ILE	P	42	48.959	27.811	14.514	1.00	83.10
ATOM	27418	CD1	ILE	P	42	51.810	26.706	14.259	1.00	80.04
ATOM	27419	N	PHE	P	43	47.345	29.577	16.597	1.00	83.03
ATOM	27420	CA	PHE	P	43	45.929	29.514	16.930	1.00	81.80
ATOM	27421	C	PHE	P	43	45.095	29.635	15.665	1.00	81.51
ATOM	27422	O	PHE	P	43	45.537	30.211	14.664	1.00	81.41
ATOM	27423	CB	PHE	P	43	45.557	30.642	17.884	1.00	82.58
ATOM	27424	CG	PHE	P	43	46.416	30.703	19.104	1.00	84.00
ATOM	27425	CD1	PHE	P	43	47.737	31.135	19.020	1.00	82.65
ATOM	27426	CD2	PHE	P	43	45.915	30.293	20.338	1.00	84.85
ATOM	27427	CE1	PHE	P	43	48.548	31.156	20.149	1.00	84.20
ATOM	27428	CE2	PHE	P	43	46.717	30.310	21.476	1.00	84.18
ATOM	27429	CZ	PHE	P	43	48.036	30.740	21.383	1.00	85.21
ATOM	27430	N	CYS	P	44	43.888	29.086	15.713	1.00	80.59
ATOM	27431	CA	CYS	P	44	42.978	29.141	14.576	1.00	80.54
ATOM	27432	C	CYS	P	44	41.571	29.406	15.082	1.00	80.91
ATOM	27433	O	CYS	P	44	41.223	29.026	16.201	1.00	81.85
ATOM	27434	CB	CYS	P	44	42.961	27.812	13.821	1.00	78.99
ATOM	27435	SG	CYS	P	44	44.567	27.085	13.380	1.00	75.69
ATOM	27436	N	HIS	P	45	40.761	30.051	14.253	1.00	81.34
ATOM	27437	CA	HIS	P	45	39.379	30.326	14.616	1.00	80.86
ATOM	27438	C	HIS	P	45	38.500	30.012	13.413	1.00	81.48
ATOM	27439	O	HIS	P	45	39.000	29.780	12.306	1.00	81.05
ATOM	27440	CB	HIS	P	45	39.206	31.784	15.034	1.00	79.61
ATOM	27441	CG	HIS	P	45	39.383	32.754	13.913	1.00	79.69
ATOM	27442	ND1	HIS	P	45	40.478	32.730	13.079	1.00	80.26
ATOM	27443	CD2	HIS	P	45	38.601	33.771	13.483	1.00	80.33
ATOM	27444	CE1	HIS	P	45	40.363	33.692	12.181	1.00	81.90
ATOM	27445	NE2	HIS	P	45	39.233	34.338	12.405	1.00	82.09
ATOM	27446	N	ASN	P	46	37.191	30.010	13.633	1.00	82.54
ATOM	27447	CA	ASN	P	46	36.228	29.702	12.577	1.00	82.35
ATOM	27448	C	ASN	P	46	35.567	30.973	12.040	1.00	82.77
ATOM	27449	O	ASN	P	46	35.164	31.844	12.817	1.00	82.48
ATOM	27450	CB	ASN	P	46	35.170	28.751	13.138	1.00	79.43
ATOM	27451	CG	ASN	P	46	34.517	27.914	12.074	1.00	76.28
ATOM	27452	OD1	ASN	P	46	35.159	27.503	11.107	1.00	73.41
ATOM	27453	ND2	ASN	P	46	33.237	27.638	12.253	1.00	74.90
ATOM	27454	N	ASP	P	47	35.458	31.078	10.716	1.00	82.59
ATOM	27455	CA	ASP	P	47	34.846	32.256	10.105	1.00	82.77
ATOM	27456	C	ASP	P	47	33.317	32.245	10.077	1.00	81.67
ATOM	27457	O	ASP	P	47	32.686	33.306	10.145	1.00	79.04
ATOM	27458	CB	ASP	P	47	35.380	32.464	8.689	1.00	84.65
ATOM	27459	CG	ASP	P	47	36.773	33.055	8.680	1.00	87.01
ATOM	27460	OD1	ASP	P	47	37.056	33.904	9.554	1.00	85.91
ATOM	27461	OD2	ASP	P	47	37.577	32.685	7.796	1.00	90.88
ATOM	27462	N	TYR	P	48	32.731	31.055	9.965	1.00	81.12
ATOM	27463	CA	TYR	P	48	31.278	30.903	9.945	1.00	82.26
ATOM	27464	C	TYR	P	48	30.838	29.843	10.949	1.00	80.12

ATOM	27465	O	TYR	P	48	30.265	28.823	10.565	1.00	79.64
ATOM	27466	CB	TYR	P	48	30.778	30.486	8.557	1.00	85.80
ATOM	27467	CG	TYR	P	48	30.927	31.525	7.466	1.00	91.93
ATOM	27468	CD1	TYR	P	48	32.191	31.991	7.084	1.00	94.79
ATOM	27469	CD2	TYR	P	48	29.810	31.982	6.752	1.00	94.12
ATOM	27470	CE1	TYR	P	48	32.346	32.874	6.009	1.00	95.81
ATOM	27471	CE2	TYR	P	48	29.954	32.866	5.673	1.00	96.01
ATOM	27472	CZ	TYR	P	48	31.228	33.298	5.306	1.00	96.27
ATOM	27473	OH	TYR	P	48	31.394	34.111	4.209	1.00	94.74
ATOM	27474	N	PRO	P	49	31.087	30.077	12.250	1.00	78.34
ATOM	27475	CA	PRO	P	49	30.719	29.136	13.312	1.00	76.51
ATOM	27476	C	PRO	P	49	29.226	28.874	13.417	1.00	74.93
ATOM	27477	O	PRO	P	49	28.802	27.743	13.639	1.00	75.88
ATOM	27478	CB	PRO	P	49	31.279	29.799	14.569	1.00	76.80
ATOM	27479	CG	PRO	P	49	31.157	31.256	14.255	1.00	77.89
ATOM	27480	CD	PRO	P	49	31.642	31.316	12.824	1.00	78.52
ATOM	27481	N	GLU	P	50	28.432	29.924	13.257	1.00	73.54
ATOM	27482	CA	GLU	P	50	26.984	29.806	13.343	1.00	72.88
ATOM	27483	C	GLU	P	50	26.421	28.705	12.438	1.00	72.98
ATOM	27484	O	GLU	P	50	25.537	27.946	12.852	1.00	72.19
ATOM	27485	CB	GLU	P	50	26.331	31.151	12.997	1.00	72.86
ATOM	27486	CG	GLU	P	50	26.520	32.237	14.055	1.00	74.16
ATOM	27487	CD	GLU	P	50	27.981	32.537	14.356	1.00	75.31
ATOM	27488	OE1	GLU	P	50	28.684	33.062	13.462	1.00	72.17
ATOM	27489	OE2	GLU	P	50	28.422	32.241	15.490	1.00	75.04
ATOM	27490	N	THR	P	51	26.943	28.608	11.216	1.00	71.82
ATOM	27491	CA	THR	P	51	26.464	27.616	10.258	1.00	71.39
ATOM	27492	C	THR	P	51	27.468	26.525	9.905	1.00	71.40
ATOM	27493	O	THR	P	51	27.102	25.361	9.740	1.00	70.51
ATOM	27494	CB	THR	P	51	26.055	28.282	8.941	1.00	71.50
ATOM	27495	OG1	THR	P	51	25.478	29.562	9.219	1.00	71.93
ATOM	27496	CG2	THR	P	51	25.039	27.408	8.193	1.00	71.15
ATOM	27497	N	ILE	P	52	28.732	26.904	9.774	1.00	71.80
ATOM	27498	CA	ILE	P	52	29.766	25.946	9.407	1.00	72.81
ATOM	27499	C	ILE	P	52	30.695	25.573	10.567	1.00	74.05
ATOM	27500	O	ILE	P	52	31.126	26.438	11.331	1.00	75.21
ATOM	27501	CB	ILE	P	52	30.632	26.508	8.249	1.00	71.49
ATOM	27502	CG1	ILE	P	52	29.734	27.204	7.221	1.00	71.32
ATOM	27503	CG2	ILE	P	52	31.415	25.379	7.585	1.00	68.60
ATOM	27504	CD1	ILE	P	52	30.482	27.952	6.132	1.00	68.63
ATOM	27505	N	THR	P	53	30.991	24.282	10.703	1.00	74.63
ATOM	27506	CA	THR	P	53	31.914	23.814	11.738	1.00	74.69
ATOM	27507	C	THR	P	53	33.103	23.108	11.063	1.00	74.06
ATOM	27508	O	THR	P	53	32.929	22.190	10.257	1.00	73.58
ATOM	27509	CB	THR	P	53	31.215	22.871	12.746	1.00	73.91
ATOM	27510	OG1	THR	P	53	30.289	22.023	12.059	1.00	75.95
ATOM	27511	CG2	THR	P	53	30.470	23.679	13.790	1.00	74.01
ATOM	27512	N	ASP	P	54	34.309	23.564	11.385	1.00	73.00
ATOM	27513	CA	ASP	P	54	35.523	23.019	10.793	1.00	73.45
ATOM	27514	C	ASP	P	54	36.247	21.936	11.581	1.00	71.32
ATOM	27515	O	ASP	P	54	36.335	21.972	12.805	1.00	69.91
ATOM	27516	CB	ASP	P	54	36.506	24.157	10.496	1.00	79.26
ATOM	27517	CG	ASP	P	54	36.726	24.370	9.003	1.00	84.84
ATOM	27518	OD1	ASP	P	54	37.240	23.443	8.329	1.00	86.48
ATOM	27519	OD2	ASP	P	54	36.384	25.466	8.507	1.00	87.28
ATOM	27520	N	TYR	P	55	36.777	20.973	10.840	1.00	69.59
ATOM	27521	CA	TYR	P	55	37.525	19.865	11.410	1.00	68.21
ATOM	27522	C	TYR	P	55	38.972	20.111	11.020	1.00	67.35
ATOM	27523	O	TYR	P	55	39.278	20.305	9.841	1.00	67.27
ATOM	27524	CB	TYR	P	55	37.054	18.543	10.804	1.00	66.35
ATOM	27525	CG	TYR	P	55	35.562	18.396	10.808	1.00	65.19
ATOM	27526	CD1	TYR	P	55	34.815	18.787	11.913	1.00	66.40

ATOM	27527	CD2	TYR	P	55	34.892	17.873	9.704	1.00	62.40
ATOM	27528	CE1	TYR	P	55	33.440	18.662	11.921	1.00	68.99
ATOM	27529	CE2	TYR	P	55	33.520	17.746	9.698	1.00	63.80
ATOM	27530	CZ	TYR	P	55	32.794	18.139	10.811	1.00	68.09
ATOM	27531	OH	TYR	P	55	31.421	17.993	10.837	1.00	71.13
ATOM	27532	N	VAL	P	56	39.866	20.106	11.999	1.00	64.83
ATOM	27533	CA	VAL	P	56	41.261	20.334	11.689	1.00	63.42
ATOM	27534	C	VAL	P	56	42.108	19.163	12.159	1.00	60.82
ATOM	27535	O	VAL	P	56	41.924	18.656	13.252	1.00	61.21
ATOM	27536	CB	VAL	P	56	41.742	21.639	12.326	1.00	64.29
ATOM	27537	CG1	VAL	P	56	43.042	22.087	11.670	1.00	62.86
ATOM	27538	CG2	VAL	P	56	40.664	22.699	12.179	1.00	61.54
ATOM	27539	N	THR	P	57	43.042	18.741	11.321	1.00	58.94
ATOM	27540	CA	THR	P	57	43.891	17.613	11.653	1.00	59.37
ATOM	27541	C	THR	P	57	45.351	17.905	11.338	1.00	61.06
ATOM	27542	O	THR	P	57	45.673	18.946	10.759	1.00	62.60
ATOM	27543	CB	THR	P	57	43.486	16.390	10.829	1.00	58.37
ATOM	27544	OG1	THR	P	57	43.982	16.531	9.490	1.00	54.86
ATOM	27545	CG2	THR	P	57	41.978	16.285	10.768	1.00	58.67
ATOM	27546	N	LEU	P	58	46.229	16.986	11.735	1.00	60.63
ATOM	27547	CA	LEU	P	58	47.652	17.104	11.431	1.00	60.19
ATOM	27548	C	LEU	P	58	47.908	16.054	10.337	1.00	58.60
ATOM	27549	O	LEU	P	58	48.188	14.886	10.619	1.00	56.42
ATOM	27550	CB	LEU	P	58	48.521	16.823	12.670	1.00	62.85
ATOM	27551	CG	LEU	P	58	50.047	16.806	12.435	1.00	65.43
ATOM	27552	CD1	LEU	P	58	50.551	18.195	12.012	1.00	66.68
ATOM	27553	CD2	LEU	P	58	50.747	16.344	13.696	1.00	63.85
ATOM	27554	N	GLN	P	59	47.765	16.488	9.089	1.00	58.76
ATOM	27555	CA	GLN	P	59	47.957	15.642	7.917	1.00	61.65
ATOM	27556	C	GLN	P	59	49.232	14.824	8.003	1.00	64.09
ATOM	27557	O	GLN	P	59	49.211	13.594	7.888	1.00	63.97
ATOM	27558	CB	GLN	P	59	48.026	16.514	6.672	1.00	63.04
ATOM	27559	CG	GLN	P	59	46.824	16.436	5.776	1.00	70.31
ATOM	27560	CD	GLN	P	59	46.848	15.227	4.860	1.00	73.58
ATOM	27561	OE1	GLN	P	59	46.744	14.079	5.307	1.00	73.93
ATOM	27562	NE2	GLN	P	59	46.989	15.482	3.565	1.00	74.48
ATOM	27563	N	ARG	P	60	50.345	15.534	8.182	1.00	65.75
ATOM	27564	CA	ARG	P	60	51.662	14.925	8.278	1.00	64.17
ATOM	27565	C	ARG	P	60	52.471	15.683	9.319	1.00	65.13
ATOM	27566	O	ARG	P	60	51.930	16.389	10.173	1.00	63.24
ATOM	27567	CB	ARG	P	60	52.375	14.988	6.921	1.00	61.10
ATOM	27568	CG	ARG	P	60	53.560	14.052	6.788	1.00	64.21
ATOM	27569	CD	ARG	P	60	54.216	14.145	5.415	1.00	68.86
ATOM	27570	NE	ARG	P	60	55.206	15.222	5.316	1.00	76.90
ATOM	27571	CZ	ARG	P	60	55.061	16.339	4.602	1.00	76.10
ATOM	27572	NH1	ARG	P	60	53.952	16.555	3.904	1.00	77.57
ATOM	27573	NH2	ARG	P	60	56.038	17.237	4.576	1.00	72.95
ATOM	27574	N	GLY	P	61	53.782	15.529	9.231	1.00	67.81
ATOM	27575	CA	GLY	P	61	54.677	16.188	10.154	1.00	68.15
ATOM	27576	C	GLY	P	61	56.031	15.560	9.960	1.00	67.21
ATOM	27577	O	GLY	P	61	56.265	14.449	10.439	1.00	66.71
ATOM	27578	N	SER	P	62	56.907	16.257	9.240	1.00	66.47
ATOM	27579	CA	SER	P	62	58.251	15.763	8.973	1.00	65.67
ATOM	27580	C	SER	P	62	59.298	16.471	9.815	1.00	65.48
ATOM	27581	O	SER	P	62	59.282	17.690	9.940	1.00	65.47
ATOM	27582	CB	SER	P	62	58.581	15.939	7.498	1.00	65.47
ATOM	27583	OG	SER	P	62	57.615	15.283	6.699	1.00	65.48
ATOM	27584	N	ALA	P	63	60.202	15.690	10.400	1.00	66.52
ATOM	27585	CA	ALA	P	63	61.278	16.226	11.228	1.00	66.27
ATOM	27586	C	ALA	P	63	62.503	16.478	10.345	1.00	65.50
ATOM	27587	O	ALA	P	63	62.673	15.828	9.313	1.00	64.39
ATOM	27588	CB	ALA	P	63	61.621	15.242	12.340	1.00	65.24

ATOM	27589	N	TYR	P	64	63.339	17.438	10.733	1.00	65.33
ATOM	27590	CA	TYR	P	64	64.540	17.752	9.962	1.00	64.57
ATOM	27591	C	TYR	P	64	65.736	17.945	10.877	1.00	63.82
ATOM	27592	O	TYR	P	64	65.626	17.835	12.103	1.00	63.91
ATOM	27593	CB	TYR	P	64	64.336	19.015	9.121	1.00	65.31
ATOM	27594	CG	TYR	P	64	63.187	18.916	8.142	1.00	67.60
ATOM	27595	CD1	TYR	P	64	61.873	18.768	8.590	1.00	68.21
ATOM	27596	CD2	TYR	P	64	63.411	18.935	6.767	1.00	67.33
ATOM	27597	CE1	TYR	P	64	60.815	18.635	7.701	1.00	67.07
ATOM	27598	CE2	TYR	P	64	62.352	18.804	5.864	1.00	67.57
ATOM	27599	CZ	TYR	P	64	61.061	18.654	6.344	1.00	67.50
ATOM	27600	OH	TYR	P	64	60.014	18.514	5.472	1.00	68.65
ATOM	27601	N	GLY	P	65	66.880	18.217	10.263	1.00	62.41
ATOM	27602	CA	GLY	P	65	68.106	18.431	11.008	1.00	63.79
ATOM	27603	C	GLY	P	65	68.258	17.750	12.361	1.00	63.94
ATOM	27604	O	GLY	P	65	67.935	16.577	12.527	1.00	62.52
ATOM	27605	N	GLY	P	66	68.764	18.513	13.325	1.00	65.28
ATOM	27606	CA	GLY	P	66	68.991	18.011	14.667	1.00	67.87
ATOM	27607	C	GLY	P	66	67.963	17.067	15.261	1.00	69.82
ATOM	27608	O	GLY	P	66	68.331	16.134	15.980	1.00	70.17
ATOM	27609	N	VAL	P	67	66.683	17.303	14.979	1.00	71.30
ATOM	27610	CA	VAL	P	67	65.608	16.456	15.510	1.00	73.22
ATOM	27611	C	VAL	P	67	65.548	15.107	14.800	1.00	72.49
ATOM	27612	O	VAL	P	67	65.365	14.053	15.432	1.00	71.95
ATOM	27613	CB	VAL	P	67	64.220	17.154	15.378	1.00	75.76
ATOM	27614	CG1	VAL	P	67	63.091	16.127	15.503	1.00	77.19
ATOM	27615	CG2	VAL	P	67	64.065	18.211	16.471	1.00	76.93
ATOM	27616	N	LEU	P	68	65.712	15.160	13.481	1.00	69.74
ATOM	27617	CA	LEU	P	68	65.681	13.979	12.631	1.00	67.59
ATOM	27618	C	LEU	P	68	66.826	12.986	12.869	1.00	68.71
ATOM	27619	O	LEU	P	68	66.887	11.943	12.212	1.00	69.95
ATOM	27620	CB	LEU	P	68	65.692	14.419	11.170	1.00	62.39
ATOM	27621	CG	LEU	P	68	65.651	13.311	10.128	1.00	58.12
ATOM	27622	CD1	LEU	P	68	64.471	12.401	10.399	1.00	57.98
ATOM	27623	CD2	LEU	P	68	65.546	13.923	8.755	1.00	57.68
ATOM	27624	N	SER	P	69	67.723	13.290	13.804	1.00	68.16
ATOM	27625	CA	SER	P	69	68.845	12.399	14.058	1.00	66.83
ATOM	27626	C	SER	P	69	69.351	12.395	15.483	1.00	67.86
ATOM	27627	O	SER	P	69	70.353	11.743	15.758	1.00	68.42
ATOM	27628	CB	SER	P	69	70.015	12.761	13.150	1.00	67.06
ATOM	27629	OG	SER	P	69	70.599	13.980	13.562	1.00	66.40
ATOM	27630	N	ASN	P	70	68.689	13.112	16.388	1.00	68.18
ATOM	27631	CA	ASN	P	70	69.147	13.152	17.779	1.00	68.46
ATOM	27632	C	ASN	P	70	68.082	12.932	18.847	1.00	68.77
ATOM	27633	O	ASN	P	70	68.363	13.027	20.049	1.00	67.99
ATOM	27634	CB	ASN	P	70	69.871	14.469	18.058	1.00	68.42
ATOM	27635	CG	ASN	P	70	71.319	14.449	17.593	1.00	70.92
ATOM	27636	OD1	ASN	P	70	72.152	13.714	18.137	1.00	68.70
ATOM	27637	ND2	ASN	P	70	71.627	15.256	16.577	1.00	71.96
ATOM	27638	N	PHE	P	71	66.859	12.634	18.427	1.00	69.32
ATOM	27639	CA	PHE	P	71	65.810	12.412	19.404	1.00	68.42
ATOM	27640	C	PHE	P	71	64.778	11.395	18.962	1.00	67.50
ATOM	27641	O	PHE	P	71	64.411	11.330	17.797	1.00	66.56
ATOM	27642	CB	PHE	P	71	65.102	13.730	19.737	1.00	70.34
ATOM	27643	CG	PHE	P	71	66.040	14.883	19.987	1.00	71.43
ATOM	27644	CD1	PHE	P	71	66.508	15.661	18.924	1.00	72.68
ATOM	27645	CD2	PHE	P	71	66.464	15.185	21.279	1.00	70.00
ATOM	27646	CE1	PHE	P	71	67.381	16.720	19.143	1.00	71.61
ATOM	27647	CE2	PHE	P	71	67.335	16.239	21.513	1.00	70.12
ATOM	27648	CZ	PHE	P	71	67.797	17.012	20.442	1.00	72.96
ATOM	27649	N	SER	P	72	64.321	10.592	19.910	1.00	67.91
ATOM	27650	CA	SER	P	72	63.294	9.602	19.636	1.00	70.04

ATOM	27651	C	SER	P	72	62.006	10.224	20.165	1.00	71.19
ATOM	27652	O	SER	P	72	61.820	10.340	21.378	1.00	70.75
ATOM	27653	CB	SER	P	72	63.579	8.294	20.384	1.00	69.38
ATOM	27654	OG	SER	P	72	63.354	8.429	21.779	1.00	67.50
ATOM	27655	N	GLY	P	73	61.116	10.632	19.268	1.00	72.22
ATOM	27656	CA	GLY	P	73	59.887	11.245	19.740	1.00	73.05
ATOM	27657	C	GLY	P	73	58.558	10.963	19.061	1.00	71.23
ATOM	27658	O	GLY	P	73	58.473	10.382	17.977	1.00	70.37
ATOM	27659	N	THR	P	74	57.505	11.393	19.743	1.00	70.11
ATOM	27660	CA	THR	P	74	56.145	11.248	19.260	1.00	70.49
ATOM	27661	C	THR	P	74	55.550	12.653	19.161	1.00	70.84
ATOM	27662	O	THR	P	74	56.241	13.650	19.373	1.00	70.49
ATOM	27663	CB	THR	P	74	55.296	10.432	20.239	1.00	68.73
ATOM	27664	OG1	THR	P	74	55.384	11.022	21.537	1.00	70.42
ATOM	27665	CG2	THR	P	74	55.782	9.008	20.316	1.00	69.13
ATOM	27666	N	VAL	P	75	54.267	12.726	18.832	1.00	71.12
ATOM	27667	CA	VAL	P	75	53.581	14.004	18.733	1.00	70.01
ATOM	27668	C	VAL	P	75	52.292	13.910	19.544	1.00	71.01
ATOM	27669	O	VAL	P	75	51.516	12.951	19.405	1.00	68.32
ATOM	27670	CB	VAL	P	75	53.243	14.361	17.266	1.00	68.33
ATOM	27671	CG1	VAL	P	75	52.178	13.414	16.729	1.00	71.81
ATOM	27672	CG2	VAL	P	75	52.774	15.795	17.175	1.00	62.85
ATOM	27673	N	LYS	P	76	52.093	14.892	20.421	1.00	72.00
ATOM	27674	CA	LYS	P	76	50.897	14.946	21.255	1.00	71.49
ATOM	27675	C	LYS	P	76	49.875	15.771	20.502	1.00	70.21
ATOM	27676	O	LYS	P	76	50.105	16.963	20.265	1.00	68.58
ATOM	27677	CB	LYS	P	76	51.200	15.623	22.593	1.00	72.14
ATOM	27678	CG	LYS	P	76	49.978	15.822	23.482	1.00	72.75
ATOM	27679	CD	LYS	P	76	50.312	16.671	24.709	1.00	74.24
ATOM	27680	CE	LYS	P	76	49.102	16.853	25.623	1.00	75.87
ATOM	27681	NZ	LYS	P	76	49.454	17.580	26.880	1.00	74.36
ATOM	27682	N	TYR	P	77	48.768	15.140	20.107	1.00	69.16
ATOM	27683	CA	TYR	P	77	47.714	15.852	19.383	1.00	69.10
ATOM	27684	C	TYR	P	77	46.351	15.750	20.051	1.00	68.51
ATOM	27685	O	TYR	P	77	45.573	14.839	19.761	1.00	68.00
ATOM	27686	CB	TYR	P	77	47.579	15.350	17.949	1.00	67.54
ATOM	27687	CG	TYR	P	77	46.613	16.191	17.144	1.00	67.94
ATOM	27688	CD1	TYR	P	77	46.936	17.503	16.797	1.00	69.24
ATOM	27689	CD2	TYR	P	77	45.369	15.691	16.753	1.00	67.32
ATOM	27690	CE1	TYR	P	77	46.048	18.303	16.084	1.00	70.23
ATOM	27691	CE2	TYR	P	77	44.468	16.481	16.035	1.00	68.92
ATOM	27692	CZ	TYR	P	77	44.817	17.791	15.705	1.00	71.64
ATOM	27693	OH	TYR	P	77	43.946	18.597	15.000	1.00	73.43
ATOM	27694	N	SER	P	78	46.063	16.694	20.938	1.00	67.71
ATOM	27695	CA	SER	P	78	44.792	16.706	21.628	1.00	68.54
ATOM	27696	C	SER	P	78	44.588	15.429	22.445	1.00	69.33
ATOM	27697	O	SER	P	78	43.810	14.550	22.060	1.00	69.61
ATOM	27698	CB	SER	P	78	43.663	16.866	20.609	1.00	68.15
ATOM	27699	OG	SER	P	78	42.395	16.904	21.239	1.00	70.43
ATOM	27700	N	GLY	P	79	45.301	15.333	23.569	1.00	69.38
ATOM	27701	CA	GLY	P	79	45.175	14.181	24.451	1.00	67.79
ATOM	27702	C	GLY	P	79	45.983	12.954	24.075	1.00	66.77
ATOM	27703	O	GLY	P	79	46.740	12.429	24.897	1.00	64.70
ATOM	27704	N	SER	P	80	45.813	12.487	22.841	1.00	65.62
ATOM	27705	CA	SER	P	80	46.537	11.321	22.360	1.00	65.53
ATOM	27706	C	SER	P	80	47.904	11.669	21.768	1.00	66.93
ATOM	27707	O	SER	P	80	48.176	12.824	21.405	1.00	66.47
ATOM	27708	CB	SER	P	80	45.699	10.572	21.324	1.00	63.76
ATOM	27709	OG	SER	P	80	44.685	9.808	21.955	1.00	65.48
ATOM	27710	N	SER	P	81	48.761	10.651	21.683	1.00	67.36
ATOM	27711	CA	SER	P	81	50.116	10.788	21.150	1.00	66.14
ATOM	27712	C	SER	P	81	50.290	9.834	19.975	1.00	64.07

ATOM	27713	O	SER	P	81	49.788	8.708	19.989	1.00	62.68
ATOM	27714	CB	SER	P	81	51.147	10.441	22.225	1.00	67.64
ATOM	27715	OG	SER	P	81	50.772	10.976	23.482	1.00	72.37
ATOM	27716	N	TYR	P	82	51.005	10.289	18.956	1.00	62.58
ATOM	27717	CA	TYR	P	82	51.236	9.465	17.782	1.00	61.06
ATOM	27718	C	TYR	P	82	52.715	9.570	17.397	1.00	60.61
ATOM	27719	O	TYR	P	82	53.371	10.565	17.691	1.00	60.82
ATOM	27720	CB	TYR	P	82	50.342	9.936	16.626	1.00	59.82
ATOM	27721	CG	TYR	P	82	48.856	10.049	16.965	1.00	60.47
ATOM	27722	CD1	TYR	P	82	48.357	11.123	17.714	1.00	60.00
ATOM	27723	CD2	TYR	P	82	47.951	9.092	16.526	1.00	60.45
ATOM	27724	CE1	TYR	P	82	46.991	11.236	18.011	1.00	57.65
ATOM	27725	CE2	TYR	P	82	46.592	9.195	16.816	1.00	61.98
ATOM	27726	CZ	TYR	P	82	46.117	10.267	17.558	1.00	60.43
ATOM	27727	OH	TYR	P	82	44.768	10.346	17.834	1.00	56.40
ATOM	27728	N	PRO	P	83	53.263	8.534	16.746	1.00	59.23
ATOM	27729	CA	PRO	P	83	54.673	8.569	16.348	1.00	56.03
ATOM	27730	C	PRO	P	83	55.006	9.788	15.489	1.00	55.15
ATOM	27731	O	PRO	P	83	54.290	10.091	14.536	1.00	55.72
ATOM	27732	CB	PRO	P	83	54.840	7.271	15.559	1.00	54.98
ATOM	27733	CG	PRO	P	83	53.805	6.366	16.132	1.00	56.03
ATOM	27734	CD	PRO	P	83	52.623	7.276	16.316	1.00	59.01
ATOM	27735	N	PHE	P	84	56.082	10.492	15.826	1.00	54.22
ATOM	27736	CA	PHE	P	84	56.512	11.643	15.035	1.00	53.22
ATOM	27737	C	PHE	P	84	57.936	11.366	14.592	1.00	53.23
ATOM	27738	O	PHE	P	84	58.775	11.020	15.419	1.00	53.00
ATOM	27739	CB	PHE	P	84	56.496	12.933	15.854	1.00	53.06
ATOM	27740	CG	PHE	P	84	57.230	14.062	15.196	1.00	52.23
ATOM	27741	CD1	PHE	P	84	56.756	14.623	14.017	1.00	52.81
ATOM	27742	CD2	PHE	P	84	58.432	14.521	15.717	1.00	53.88
ATOM	27743	CE1	PHE	P	84	57.474	15.628	13.358	1.00	55.88
ATOM	27744	CE2	PHE	P	84	59.163	15.524	15.070	1.00	55.82
ATOM	27745	CZ	PHE	P	84	58.681	16.077	13.882	1.00	56.29
ATOM	27746	N	PRO	P	85	58.234	11.494	13.283	1.00	54.79
ATOM	27747	CA	PRO	P	85	57.393	11.876	12.140	1.00	55.41
ATOM	27748	C	PRO	P	85	56.088	11.103	12.061	1.00	57.32
ATOM	27749	O	PRO	P	85	56.063	9.890	12.264	1.00	58.80
ATOM	27750	CB	PRO	P	85	58.285	11.572	10.946	1.00	53.75
ATOM	27751	CG	PRO	P	85	59.639	11.839	11.477	1.00	53.35
ATOM	27752	CD	PRO	P	85	59.598	11.181	12.821	1.00	53.17
ATOM	27753	N	THR	P	86	55.004	11.807	11.759	1.00	58.65
ATOM	27754	CA	THR	P	86	53.700	11.167	11.657	1.00	56.72
ATOM	27755	C	THR	P	86	53.690	10.214	10.470	1.00	55.89
ATOM	27756	O	THR	P	86	54.300	10.489	9.431	1.00	54.83
ATOM	27757	CB	THR	P	86	52.569	12.207	11.471	1.00	56.47
ATOM	27758	OG1	THR	P	86	52.773	12.928	10.253	1.00	58.57
ATOM	27759	CG2	THR	P	86	52.550	13.187	12.626	1.00	56.23
ATOM	27760	N	THR	P	87	53.007	9.085	10.638	1.00	54.22
ATOM	27761	CA	THR	P	87	52.895	8.095	9.575	1.00	52.70
ATOM	27762	C	THR	P	87	51.455	8.069	9.032	1.00	53.08
ATOM	27763	O	THR	P	87	51.126	7.279	8.149	1.00	51.00
ATOM	27764	CB	THR	P	87	53.305	6.683	10.084	1.00	52.69
ATOM	27765	OG1	THR	P	87	52.490	6.305	11.202	1.00	52.07
ATOM	27766	CG2	THR	P	87	54.769	6.672	10.508	1.00	50.14
ATOM	27767	N	SER	P	88	50.608	8.956	9.558	1.00	54.82
ATOM	27768	CA	SER	P	88	49.205	9.044	9.154	1.00	55.85
ATOM	27769	C	SER	P	88	48.591	10.381	9.545	1.00	56.87
ATOM	27770	O	SER	P	88	49.199	11.158	10.286	1.00	57.51
ATOM	27771	CB	SER	P	88	48.404	7.936	9.819	1.00	55.11
ATOM	27772	OG	SER	P	88	49.050	6.691	9.647	1.00	60.94
ATOM	27773	N	GLU	P	89	47.381	10.642	9.048	1.00	58.00
ATOM	27774	CA	GLU	P	89	46.664	11.883	9.358	1.00	58.76

ATOM	27775	C	GLU	P	89	45.797	11.660	10.593	1.00	59.34
ATOM	27776	O	GLU	P	89	44.873	10.853	10.566	1.00	58.97
ATOM	27777	CB	GLU	P	89	45.775	12.305	8.186	1.00	57.05
ATOM	27778	CG	GLU	P	89	44.874	13.489	8.513	1.00	58.33
ATOM	27779	CD	GLU	P	89	43.798	13.718	7.469	1.00	59.31
ATOM	27780	OE1	GLU	P	89	43.171	12.729	7.036	1.00	61.49
ATOM	27781	OE2	GLU	P	89	43.564	14.883	7.091	1.00	58.60
ATOM	27782	N	THR	P	90	46.092	12.380	11.672	1.00	61.19
ATOM	27783	CA	THR	P	90	45.349	12.226	12.921	1.00	62.46
ATOM	27784	C	THR	P	90	43.841	12.454	12.755	1.00	64.36
ATOM	27785	O	THR	P	90	43.380	12.889	11.691	1.00	63.41
ATOM	27786	CB	THR	P	90	45.892	13.191	14.005	1.00	60.56
ATOM	27787	OG1	THR	P	90	45.642	14.547	13.616	1.00	61.15
ATOM	27788	CG2	THR	P	90	47.382	12.997	14.187	1.00	58.20
ATOM	27789	N	PRO	P	91	43.052	12.143	13.804	1.00	65.93
ATOM	27790	CA	PRO	P	91	41.590	12.307	13.810	1.00	67.96
ATOM	27791	C	PRO	P	91	41.205	13.756	13.508	1.00	68.81
ATOM	27792	O	PRO	P	91	41.978	14.484	12.888	1.00	68.30
ATOM	27793	CB	PRO	P	91	41.206	11.899	15.230	1.00	66.94
ATOM	27794	CG	PRO	P	91	42.216	10.861	15.559	1.00	67.64
ATOM	27795	CD	PRO	P	91	43.499	11.467	15.035	1.00	65.91
ATOM	27796	N	ARG	P	92	40.018	14.177	13.941	1.00	70.69
ATOM	27797	CA	ARG	P	92	39.602	15.556	13.711	1.00	73.99
ATOM	27798	C	ARG	P	92	39.250	16.326	14.984	1.00	74.64
ATOM	27799	O	ARG	P	92	38.514	15.841	15.844	1.00	74.48
ATOM	27800	CB	ARG	P	92	38.416	15.621	12.740	1.00	77.21
ATOM	27801	CG	ARG	P	92	37.095	15.063	13.271	1.00	84.94
ATOM	27802	CD	ARG	P	92	35.922	15.513	12.380	1.00	89.93
ATOM	27803	NE	ARG	P	92	34.644	14.863	12.686	1.00	92.95
ATOM	27804	CZ	ARG	P	92	34.003	14.947	13.850	1.00	95.15
ATOM	27805	NH1	ARG	P	92	34.511	15.660	14.851	1.00	95.43
ATOM	27806	NH2	ARG	P	92	32.842	14.318	14.008	1.00	95.86
ATOM	27807	N	VAL	P	93	39.804	17.528	15.100	1.00	75.90
ATOM	27808	CA	VAL	P	93	39.527	18.407	16.229	1.00	77.61
ATOM	27809	C	VAL	P	93	38.579	19.476	15.679	1.00	79.99
ATOM	27810	O	VAL	P	93	38.951	20.249	14.788	1.00	79.85
ATOM	27811	CB	VAL	P	93	40.805	19.083	16.744	1.00	76.27
ATOM	27812	CG1	VAL	P	93	40.469	20.019	17.891	1.00	78.10
ATOM	27813	CG2	VAL	P	93	41.790	18.039	17.193	1.00	76.08
ATOM	27814	N	VAL	P	94	37.352	19.509	16.194	1.00	81.71
ATOM	27815	CA	VAL	P	94	36.363	20.466	15.720	1.00	81.92
ATOM	27816	C	VAL	P	94	36.724	21.888	16.087	1.00	83.90
ATOM	27817	O	VAL	P	94	37.111	22.175	17.219	1.00	84.59
ATOM	27818	CB	VAL	P	94	34.956	20.141	16.261	1.00	80.21
ATOM	27819	CG1	VAL	P	94	34.517	18.772	15.764	1.00	77.58
ATOM	27820	CG2	VAL	P	94	34.954	20.183	17.773	1.00	82.21
ATOM	27821	N	TYR	P	95	36.605	22.767	15.102	1.00	86.66
ATOM	27822	CA	TYR	P	95	36.899	24.186	15.249	1.00	89.85
ATOM	27823	C	TYR	P	95	35.675	24.983	14.802	1.00	91.46
ATOM	27824	O	TYR	P	95	35.186	24.801	13.688	1.00	93.64
ATOM	27825	CB	TYR	P	95	38.106	24.556	14.382	1.00	90.22
ATOM	27826	CG	TYR	P	95	39.437	24.453	15.095	1.00	92.57
ATOM	27827	CD1	TYR	P	95	39.800	23.297	15.789	1.00	92.64
ATOM	27828	CD2	TYR	P	95	40.334	25.523	15.083	1.00	94.38
ATOM	27829	CE1	TYR	P	95	41.028	23.215	16.459	1.00	93.86
ATOM	27830	CE2	TYR	P	95	41.561	25.451	15.745	1.00	94.22
ATOM	27831	CZ	TYR	P	95	41.902	24.300	16.430	1.00	94.92
ATOM	27832	OH	TYR	P	95	43.111	24.246	17.087	1.00	93.23
ATOM	27833	N	ASN	P	96	35.170	25.859	15.661	1.00	92.20
ATOM	27834	CA	ASN	P	96	34.004	26.651	15.293	1.00	92.78
ATOM	27835	C	ASN	P	96	33.676	27.780	16.264	1.00	93.99
ATOM	27836	O	ASN	P	96	32.775	27.663	17.103	1.00	94.44

ATOM	27837	CB	ASN	P	96	32.783	25.739	15.108	1.00	91.17
ATOM	27838	CG	ASN	P	96	32.639	24.718	16.216	1.00	89.33
ATOM	27839	OD1	ASN	P	96	31.683	23.943	16.237	1.00	88.07
ATOM	27840	ND2	ASN	P	96	33.588	24.709	17.143	1.00	88.51
ATOM	27841	N	SER	P	97	34.418	28.877	16.125	1.00	93.93
ATOM	27842	CA	SER	P	97	34.249	30.073	16.947	1.00	94.51
ATOM	27843	C	SER	P	97	35.111	31.167	16.341	1.00	93.95
ATOM	27844	O	SER	P	97	36.288	30.954	16.068	1.00	93.73
ATOM	27845	CB	SER	P	97	34.696	29.818	18.392	1.00	96.13
ATOM	27846	OG	SER	P	97	33.856	28.880	19.048	1.00	97.38
ATOM	27847	N	ARG	P	98	34.526	32.334	16.115	1.00	94.31
ATOM	27848	CA	ARG	P	98	35.276	33.440	15.540	1.00	94.79
ATOM	27849	C	ARG	P	98	36.500	33.684	16.418	1.00	95.61
ATOM	27850	O	ARG	P	98	37.523	34.190	15.958	1.00	94.61
ATOM	27851	CB	ARG	P	98	34.398	34.692	15.493	1.00	95.11
ATOM	27852	CG	ARG	P	98	33.122	34.508	14.685	1.00	95.49
ATOM	27853	CD	ARG	P	98	33.233	35.129	13.296	1.00	95.67
ATOM	27854	NE	ARG	P	98	32.224	34.617	12.365	1.00	94.44
ATOM	27855	CZ	ARG	P	98	30.918	34.556	12.612	1.00	92.48
ATOM	27856	NH1	ARG	P	98	30.427	34.974	13.771	1.00	90.25
ATOM	27857	NH2	ARG	P	98	30.098	34.072	11.690	1.00	91.56
ATOM	27858	N	THR	P	99	36.375	33.306	17.689	1.00	97.00
ATOM	27859	CA	THR	P	99	37.442	33.462	18.674	1.00	97.86
ATOM	27860	C	THR	P	99	38.537	32.436	18.397	1.00	98.64
ATOM	27861	O	THR	P	99	38.250	31.325	17.943	1.00	99.63
ATOM	27862	CB	THR	P	99	36.911	33.233	20.116	1.00	97.99
ATOM	27863	OG1	THR	P	99	35.788	34.090	20.366	1.00	97.86
ATOM	27864	CG2	THR	P	99	37.999	33.529	21.140	1.00	97.88
ATOM	27865	N	ASP	P	100	39.788	32.796	18.673	1.00	98.33
ATOM	27866	CA	ASP	P	100	40.894	31.871	18.441	1.00	96.55
ATOM	27867	C	ASP	P	100	40.980	30.728	19.446	1.00	95.71
ATOM	27868	O	ASP	P	100	40.415	30.773	20.541	1.00	94.40
ATOM	27869	CB	ASP	P	100	42.233	32.610	18.414	1.00	95.21
ATOM	27870	CG	ASP	P	100	42.443	33.384	17.131	1.00	94.85
ATOM	27871	OD1	ASP	P	100	42.304	32.785	16.042	1.00	92.30
ATOM	27872	OD2	ASP	P	100	42.755	34.590	17.216	1.00	95.99
ATOM	27873	N	LYS	P	101	41.705	29.697	19.045	1.00	95.00
ATOM	27874	CA	LYS	P	101	41.898	28.518	19.864	1.00	94.49
ATOM	27875	C	LYS	P	101	43.265	27.972	19.463	1.00	95.98
ATOM	27876	O	LYS	P	101	43.697	28.133	18.315	1.00	96.55
ATOM	27877	CB	LYS	P	101	40.793	27.501	19.563	1.00	90.82
ATOM	27878	CG	LYS	P	101	40.801	26.251	20.420	1.00	86.52
ATOM	27879	CD	LYS	P	101	39.601	25.376	20.080	1.00	83.72
ATOM	27880	CE	LYS	P	101	39.522	24.143	20.964	1.00	80.73
ATOM	27881	NZ	LYS	P	101	38.300	23.352	20.677	1.00	77.83
ATOM	27882	N	PRO	P	102	43.985	27.355	20.410	1.00	96.09
ATOM	27883	CA	PRO	P	102	45.301	26.815	20.057	1.00	94.26
ATOM	27884	C	PRO	P	102	45.154	25.524	19.255	1.00	93.06
ATOM	27885	O	PRO	P	102	44.143	24.821	19.372	1.00	92.00
ATOM	27886	CB	PRO	P	102	45.950	26.557	21.420	1.00	94.82
ATOM	27887	CG	PRO	P	102	45.228	27.492	22.351	1.00	95.87
ATOM	27888	CD	PRO	P	102	43.806	27.378	21.872	1.00	96.36
ATOM	27889	N	TRP	P	103	46.154	25.225	18.432	1.00	91.13
ATOM	27890	CA	TRP	P	103	46.154	23.994	17.652	1.00	88.44
ATOM	27891	C	TRP	P	103	46.858	23.010	18.567	1.00	86.44
ATOM	27892	O	TRP	P	103	48.075	23.045	18.709	1.00	88.22
ATOM	27893	CB	TRP	P	103	46.949	24.168	16.358	1.00	88.93
ATOM	27894	CG	TRP	P	103	46.763	23.050	15.384	1.00	88.89
ATOM	27895	CD1	TRP	P	103	45.614	22.357	15.149	1.00	89.46
ATOM	27896	CD2	TRP	P	103	47.731	22.550	14.448	1.00	89.97
ATOM	27897	NE1	TRP	P	103	45.800	21.461	14.124	1.00	90.99
ATOM	27898	CE2	TRP	P	103	47.091	21.559	13.675	1.00	90.55

ATOM	27899	CE3	TRP	P	103	49.077	22.846	14.186	1.00	91.29
ATOM	27900	CZ2	TRP	P	103	47.751	20.857	12.653	1.00	90.50
ATOM	27901	CZ3	TRP	P	103	49.734	22.146	13.165	1.00	90.58
ATOM	27902	CH2	TRP	P	103	49.067	21.166	12.415	1.00	89.23
ATOM	27903	N	PRO	P	104	46.094	22.126	19.214	1.00	83.83
ATOM	27904	CA	PRO	P	104	46.609	21.115	20.141	1.00	82.32
ATOM	27905	C	PRO	P	104	47.723	20.247	19.562	1.00	80.33
ATOM	27906	O	PRO	P	104	47.544	19.051	19.364	1.00	80.22
ATOM	27907	CB	PRO	P	104	45.363	20.306	20.479	1.00	83.50
ATOM	27908	CG	PRO	P	104	44.592	20.353	19.187	1.00	83.35
ATOM	27909	CD	PRO	P	104	44.707	21.817	18.826	1.00	83.75
ATOM	27910	N	VAL	P	105	48.876	20.847	19.302	1.00	78.89
ATOM	27911	CA	VAL	P	105	49.992	20.103	18.742	1.00	79.11
ATOM	27912	C	VAL	P	105	51.277	20.321	19.528	1.00	80.11
ATOM	27913	O	VAL	P	105	51.917	21.378	19.430	1.00	79.78
ATOM	27914	CB	VAL	P	105	50.249	20.492	17.277	1.00	78.11
ATOM	27915	CG1	VAL	P	105	51.410	19.682	16.724	1.00	75.13
ATOM	27916	CG2	VAL	P	105	48.998	20.261	16.455	1.00	78.33
ATOM	27917	N	ALA	P	106	51.648	19.307	20.303	1.00	78.90
ATOM	27918	CA	ALA	P	106	52.858	19.370	21.099	1.00	76.15
ATOM	27919	C	ALA	P	106	53.793	18.205	20.771	1.00	75.48
ATOM	27920	O	ALA	P	106	53.381	17.038	20.731	1.00	71.78
ATOM	27921	CB	ALA	P	106	52.504	19.378	22.577	1.00	77.06
ATOM	27922	N	LEU	P	107	55.055	18.557	20.527	1.00	75.06
ATOM	27923	CA	LEU	P	107	56.118	17.611	20.203	1.00	72.71
ATOM	27924	C	LEU	P	107	56.867	17.186	21.455	1.00	73.52
ATOM	27925	O	LEU	P	107	57.271	18.023	22.258	1.00	71.66
ATOM	27926	CB	LEU	P	107	57.100	18.257	19.236	1.00	69.17
ATOM	27927	CG	LEU	P	107	57.079	17.767	17.793	1.00	68.56
ATOM	27928	CD1	LEU	P	107	55.651	17.611	17.317	1.00	66.63
ATOM	27929	CD2	LEU	P	107	57.850	18.754	16.922	1.00	68.39
ATOM	27930	N	TYR	P	108	57.051	15.881	21.620	1.00	76.29
ATOM	27931	CA	TYR	P	108	57.768	15.363	22.778	1.00	79.20
ATOM	27932	C	TYR	P	108	58.979	14.512	22.396	1.00	79.06
ATOM	27933	O	TYR	P	108	58.967	13.277	22.513	1.00	78.63
ATOM	27934	CB	TYR	P	108	56.812	14.584	23.687	1.00	82.04
ATOM	27935	CG	TYR	P	108	55.791	15.485	24.332	1.00	85.38
ATOM	27936	CD1	TYR	P	108	54.861	16.164	23.557	1.00	86.83
ATOM	27937	CD2	TYR	P	108	55.794	15.713	25.707	1.00	87.31
ATOM	27938	CE1	TYR	P	108	53.966	17.052	24.125	1.00	89.46
ATOM	27939	CE2	TYR	P	108	54.895	16.607	26.290	1.00	89.11
ATOM	27940	CZ	TYR	P	108	53.984	17.275	25.486	1.00	89.35
ATOM	27941	OH	TYR	P	108	53.089	18.178	26.018	1.00	91.88
ATOM	27942	N	LEU	P	109	60.022	15.211	21.945	1.00	77.47
ATOM	27943	CA	LEU	P	109	61.287	14.612	21.534	1.00	77.08
ATOM	27944	C	LEU	P	109	62.126	14.229	22.763	1.00	77.14
ATOM	27945	O	LEU	P	109	61.813	14.617	23.888	1.00	76.41
ATOM	27946	CB	LEU	P	109	62.072	15.614	20.683	1.00	74.73
ATOM	27947	CG	LEU	P	109	61.301	16.472	19.675	1.00	72.64
ATOM	27948	CD1	LEU	P	109	62.248	17.489	19.061	1.00	71.50
ATOM	27949	CD2	LEU	P	109	60.678	15.608	18.599	1.00	70.89
ATOM	27950	N	THR	P	110	63.190	13.464	22.541	1.00	78.34
ATOM	27951	CA	THR	P	110	64.073	13.041	23.624	1.00	79.27
ATOM	27952	C	THR	P	110	65.466	12.734	23.072	1.00	80.81
ATOM	27953	O	THR	P	110	65.602	12.126	22.015	1.00	81.59
ATOM	27954	CB	THR	P	110	63.539	11.787	24.336	1.00	77.98
ATOM	27955	OG1	THR	P	110	62.155	11.970	24.661	1.00	74.28
ATOM	27956	CG2	THR	P	110	64.323	11.540	25.614	1.00	78.23
ATOM	27957	N	PRO	P	111	66.520	13.142	23.791	1.00	82.42
ATOM	27958	CA	PRO	P	111	67.904	12.910	23.357	1.00	82.89
ATOM	27959	C	PRO	P	111	68.318	11.440	23.313	1.00	82.75
ATOM	27960	O	PRO	P	111	67.852	10.629	24.121	1.00	82.97

ATOM	27961	CB	PRO	P	111	68.730	13.688	24.389	1.00	84.12
ATOM	27962	CG	PRO	P	111	67.761	14.694	24.955	1.00	84.79
ATOM	27963	CD	PRO	P	111	66.493	13.896	25.055	1.00	83.63
ATOM	27964	N	VAL	P	112	69.193	11.107	22.365	1.00	81.97
ATOM	27965	CA	VAL	P	112	69.710	9.742	22.238	1.00	82.00
ATOM	27966	C	VAL	P	112	71.219	9.765	22.463	1.00	81.87
ATOM	27967	O	VAL	P	112	71.894	10.718	22.062	1.00	80.92
ATOM	27968	CB	VAL	P	112	69.442	9.125	20.833	1.00	81.22
ATOM	27969	CG1	VAL	P	112	67.985	8.726	20.705	1.00	79.04
ATOM	27970	CG2	VAL	P	112	69.841	10.111	19.737	1.00	79.09
ATOM	27971	N	SER	P	113	71.735	8.719	23.105	1.00	81.18
ATOM	27972	CA	SER	P	113	73.164	8.607	23.378	1.00	81.79
ATOM	27973	C	SER	P	113	73.980	9.236	22.264	1.00	83.40
ATOM	27974	O	SER	P	113	74.851	10.066	22.517	1.00	83.47
ATOM	27975	CB	SER	P	113	73.565	7.141	23.521	1.00	80.67
ATOM	27976	OG	SER	P	113	72.924	6.541	24.631	1.00	80.93
ATOM	27977	N	SER	P	114	73.694	8.839	21.029	1.00	86.01
ATOM	27978	CA	SER	P	114	74.409	9.376	19.878	1.00	90.20
ATOM	27979	C	SER	P	114	74.105	10.856	19.685	1.00	93.72
ATOM	27980	O	SER	P	114	73.513	11.255	18.680	1.00	95.96
ATOM	27981	CB	SER	P	114	74.047	8.588	18.613	1.00	88.09
ATOM	27982	OG	SER	P	114	72.651	8.375	18.514	1.00	87.66
ATOM	27983	N	ALA	P	115	74.516	11.664	20.659	1.00	96.45
ATOM	27984	CA	ALA	P	115	74.301	13.109	20.622	1.00	99.34
ATOM	27985	C	ALA	P	115	75.455	13.833	21.325	1.00	101.13
ATOM	27986	O	ALA	P	115	75.800	13.503	22.461	1.00	101.80
ATOM	27987	CB	ALA	P	115	72.969	13.456	21.292	1.00	97.83
ATOM	27988	N	GLY	P	116	76.046	14.817	20.648	1.00	103.00
ATOM	27989	CA	GLY	P	116	77.157	15.556	21.226	1.00	104.16
ATOM	27990	C	GLY	P	116	76.754	16.687	22.157	1.00	105.54
ATOM	27991	O	GLY	P	116	76.878	16.580	23.379	1.00	104.16
ATOM	27992	N	GLY	P	117	76.281	17.781	21.570	1.00	107.15
ATOM	27993	CA	GLY	P	117	75.862	18.930	22.349	1.00	108.57
ATOM	27994	C	GLY	P	117	74.937	19.816	21.536	1.00	109.40
ATOM	27995	O	GLY	P	117	73.727	19.827	21.759	1.00	110.15
ATOM	27996	N	VAL	P	118	75.502	20.563	20.592	1.00	109.38
ATOM	27997	CA	VAL	P	118	74.703	21.437	19.744	1.00	109.00
ATOM	27998	C	VAL	P	118	73.921	20.562	18.765	1.00	109.71
ATOM	27999	O	VAL	P	118	74.245	20.496	17.575	1.00	109.97
ATOM	28000	CB	VAL	P	118	75.589	22.430	18.943	1.00	108.17
ATOM	28001	CG1	VAL	P	118	74.713	23.321	18.072	1.00	106.80
ATOM	28002	CG2	VAL	P	118	76.422	23.279	19.894	1.00	106.35
ATOM	28003	N	ALA	P	119	72.899	19.880	19.281	1.00	109.26
ATOM	28004	CA	ALA	P	119	72.053	19.007	18.472	1.00	107.95
ATOM	28005	C	ALA	P	119	71.283	19.834	17.437	1.00	107.15
ATOM	28006	O	ALA	P	119	71.138	19.437	16.275	1.00	106.85
ATOM	28007	CB	ALA	P	119	71.078	18.247	19.374	1.00	105.97
ATOM	28008	N	ILE	P	120	70.804	20.997	17.868	1.00	106.16
ATOM	28009	CA	ILE	P	120	70.045	21.886	17.000	1.00	104.21
ATOM	28010	C	ILE	P	120	70.769	23.212	16.788	1.00	103.35
ATOM	28011	O	ILE	P	120	71.224	23.841	17.741	1.00	102.84
ATOM	28012	CB	ILE	P	120	68.639	22.171	17.596	1.00	102.99
ATOM	28013	CG1	ILE	P	120	67.817	20.884	17.636	1.00	99.00
ATOM	28014	CG2	ILE	P	120	67.922	23.225	16.774	1.00	103.94
ATOM	28015	CD1	ILE	P	120	66.411	21.079	18.123	1.00	95.69
ATOM	28016	N	LYS	P	121	70.873	23.625	15.530	1.00	103.23
ATOM	28017	CA	LYS	P	121	71.520	24.887	15.181	1.00	103.65
ATOM	28018	C	LYS	P	121	70.459	25.946	14.871	1.00	103.29
ATOM	28019	O	LYS	P	121	69.606	25.739	14.007	1.00	104.27
ATOM	28020	CB	LYS	P	121	72.433	24.707	13.960	1.00	103.77
ATOM	28021	CG	LYS	P	121	73.749	23.986	14.240	1.00	105.27
ATOM	28022	CD	LYS	P	121	73.541	22.531	14.647	1.00	105.92

ATOM	28023	CE	LYS	P	121	74.858	21.862	15.027	1.00104.68
ATOM	28024	NZ	LYS	P	121	75.852	21.891	13.924	1.00104.86
ATOM	28025	N	ALA	P	122	70.512	27.073	15.579	1.00101.48
ATOM	28026	CA	ALA	P	122	69.562	28.161	15.370	1.00 99.38
ATOM	28027	C	ALA	P	122	69.553	28.602	13.907	1.00 98.57
ATOM	28028	O	ALA	P	122	70.594	28.973	13.362	1.00 97.75
ATOM	28029	CB	ALA	P	122	69.920	29.337	16.256	1.00 98.34
ATOM	28030	N	GLY	P	123	68.379	28.560	13.275	1.00 97.81
ATOM	28031	CA	GLY	P	123	68.260	28.966	11.880	1.00 95.65
ATOM	28032	C	GLY	P	123	67.952	27.828	10.923	1.00 93.41
ATOM	28033	O	GLY	P	123	67.813	28.035	9.711	1.00 90.51
ATOM	28034	N	SER	P	124	67.850	26.622	11.479	1.00 92.61
ATOM	28035	CA	SER	P	124	67.556	25.419	10.710	1.00 91.28
ATOM	28036	C	SER	P	124	66.106	24.989	10.931	1.00 90.83
ATOM	28037	O	SER	P	124	65.516	25.246	11.986	1.00 89.93
ATOM	28038	CB	SER	P	124	68.500	24.275	11.113	1.00 90.84
ATOM	28039	OG	SER	P	124	68.253	23.824	12.438	1.00 88.83
ATOM	28040	N	LEU	P	125	65.544	24.335	9.920	1.00 89.79
ATOM	28041	CA	LEU	P	125	64.170	23.853	9.966	1.00 88.32
ATOM	28042	C	LEU	P	125	64.084	22.615	10.852	1.00 87.41
ATOM	28043	O	LEU	P	125	64.535	21.535	10.477	1.00 87.17
ATOM	28044	CB	LEU	P	125	63.692	23.533	8.547	1.00 86.79
ATOM	28045	CG	LEU	P	125	62.236	23.126	8.342	1.00 84.31
ATOM	28046	CD1	LEU	P	125	61.304	24.047	9.111	1.00 83.07
ATOM	28047	CD2	LEU	P	125	61.939	23.177	6.861	1.00 84.12
ATOM	28048	N	ILE	P	126	63.502	22.790	12.032	1.00 86.83
ATOM	28049	CA	ILE	P	126	63.350	21.717	13.009	1.00 86.35
ATOM	28050	C	ILE	P	126	62.307	20.678	12.608	1.00 86.06
ATOM	28051	O	ILE	P	126	62.518	19.471	12.764	1.00 86.65
ATOM	28052	CB	ILE	P	126	62.976	22.305	14.383	1.00 85.80
ATOM	28053	CG1	ILE	P	126	63.998	23.383	14.752	1.00 87.84
ATOM	28054	CG2	ILE	P	126	62.900	21.210	15.438	1.00 82.24
ATOM	28055	CD1	ILE	P	126	65.450	22.989	14.485	1.00 90.09
ATOM	28056	N	ALA	P	127	61.178	21.154	12.096	1.00 84.35
ATOM	28057	CA	ALA	P	127	60.110	20.265	11.678	1.00 82.32
ATOM	28058	C	ALA	P	127	59.185	20.963	10.699	1.00 81.56
ATOM	28059	O	ALA	P	127	59.351	22.142	10.388	1.00 82.29
ATOM	28060	CB	ALA	P	127	59.325	19.784	12.888	1.00 81.45
ATOM	28061	N	VAL	P	128	58.211	20.212	10.207	1.00 80.46
ATOM	28062	CA	VAL	P	128	57.237	20.724	9.260	1.00 78.20
ATOM	28063	C	VAL	P	128	55.914	20.034	9.565	1.00 78.79
ATOM	28064	O	VAL	P	128	55.681	18.895	9.149	1.00 77.92
ATOM	28065	CB	VAL	P	128	57.674	20.435	7.802	1.00 74.80
ATOM	28066	CG1	VAL	P	128	56.523	20.680	6.850	1.00 75.01
ATOM	28067	CG2	VAL	P	128	58.845	21.321	7.433	1.00 70.52
ATOM	28068	N	LEU	P	129	55.060	20.732	10.311	1.00 78.12
ATOM	28069	CA	LEU	P	129	53.759	20.202	10.693	1.00 78.57
ATOM	28070	C	LEU	P	129	52.669	20.697	9.759	1.00 78.44
ATOM	28071	O	LEU	P	129	52.392	21.894	9.710	1.00 79.29
ATOM	28072	CB	LEU	P	129	53.436	20.620	12.119	1.00 78.38
ATOM	28073	CG	LEU	P	129	54.525	20.231	13.115	1.00 79.04
ATOM	28074	CD1	LEU	P	129	54.165	20.791	14.477	1.00 79.85
ATOM	28075	CD2	LEU	P	129	54.683	18.712	13.159	1.00 77.89
ATOM	28076	N	ILE	P	130	52.053	19.771	9.025	1.00 77.60
ATOM	28077	CA	ILE	P	130	50.992	20.114	8.083	1.00 75.01
ATOM	28078	C	ILE	P	130	49.612	20.002	8.729	1.00 75.21
ATOM	28079	O	ILE	P	130	49.264	18.973	9.314	1.00 75.22
ATOM	28080	CB	ILE	P	130	51.017	19.209	6.841	1.00 72.60
ATOM	28081	CG1	ILE	P	130	52.327	19.383	6.072	1.00 73.08
ATOM	28082	CG2	ILE	P	130	49.864	19.559	5.938	1.00 72.84
ATOM	28083	CD1	ILE	P	130	53.533	18.745	6.728	1.00 76.78
ATOM	28084	N	LEU	P	131	48.834	21.073	8.609	1.00 73.79

ATOM	28085	CA	LEU	P	131	47.489	21.141	9.162	1.00	71.95
ATOM	28086	C	LEU	P	131	46.497	20.962	8.021	1.00	71.70
ATOM	28087	O	LEU	P	131	46.737	21.430	6.918	1.00	70.72
ATOM	28088	CB	LEU	P	131	47.291	22.501	9.850	1.00	71.49
ATOM	28089	CG	LEU	P	131	45.923	22.912	10.406	1.00	69.90
ATOM	28090	CD1	LEU	P	131	46.082	23.913	11.535	1.00	64.32
ATOM	28091	CD2	LEU	P	131	45.091	23.500	9.288	1.00	70.46
ATOM	28092	N	ARG	P	132	45.389	20.275	8.277	1.00	73.51
ATOM	28093	CA	ARG	P	132	44.385	20.063	7.234	1.00	75.24
ATOM	28094	C	ARG	P	132	42.981	20.428	7.701	1.00	74.30
ATOM	28095	O	ARG	P	132	42.477	19.857	8.668	1.00	75.37
ATOM	28096	CB	ARG	P	132	44.397	18.608	6.773	1.00	77.52
ATOM	28097	CG	ARG	P	132	43.657	18.390	5.468	1.00	80.11
ATOM	28098	CD	ARG	P	132	43.708	16.934	5.043	1.00	83.49
ATOM	28099	NE	ARG	P	132	43.476	16.772	3.612	1.00	86.71
ATOM	28100	CZ	ARG	P	132	43.510	15.606	2.976	1.00	87.37
ATOM	28101	NH1	ARG	P	132	43.764	14.494	3.650	1.00	88.11
ATOM	28102	NH2	ARG	P	132	43.299	15.557	1.666	1.00	88.04
ATOM	28103	N	ASN	P	133	42.347	21.369	7.004	1.00	72.95
ATOM	28104	CA	ASN	P	133	41.003	21.801	7.375	1.00	72.88
ATOM	28105	C	ASN	P	133	39.927	21.395	6.369	1.00	71.95
ATOM	28106	O	ASN	P	133	40.100	21.523	5.149	1.00	71.45
ATOM	28107	CB	ASN	P	133	40.971	23.324	7.602	1.00	72.78
ATOM	28108	CG	ASN	P	133	40.317	24.080	6.461	1.00	74.23
ATOM	28109	OD1	ASN	P	133	40.755	24.002	5.312	1.00	77.23
ATOM	28110	ND2	ASN	P	133	39.264	24.822	6.775	1.00	74.11
ATOM	28111	N	THR	P	134	38.821	20.890	6.907	1.00	69.82
ATOM	28112	CA	THR	P	134	37.686	20.451	6.115	1.00	68.02
ATOM	28113	C	THR	P	134	36.424	20.587	6.955	1.00	69.17
ATOM	28114	O	THR	P	134	36.253	19.890	7.948	1.00	70.36
ATOM	28115	CB	THR	P	134	37.838	18.982	5.671	1.00	65.15
ATOM	28116	OG1	THR	P	134	38.108	18.163	6.813	1.00	59.70
ATOM	28117	CG2	THR	P	134	38.962	18.846	4.660	1.00	61.41
ATOM	28118	N	ASN	P	135	35.548	21.494	6.534	1.00	70.73
ATOM	28119	CA	ASN	P	135	34.281	21.782	7.211	1.00	70.63
ATOM	28120	C	ASN	P	135	33.161	20.836	6.787	1.00	70.94
ATOM	28121	O	ASN	P	135	33.298	20.085	5.818	1.00	69.67
ATOM	28122	CB	ASN	P	135	33.852	23.213	6.889	1.00	68.85
ATOM	28123	CG	ASN	P	135	33.557	23.408	5.406	1.00	67.46
ATOM	28124	OD1	ASN	P	135	32.617	22.822	4.868	1.00	64.30
ATOM	28125	ND2	ASN	P	135	34.368	24.221	4.738	1.00	65.97
ATOM	28126	N	ASN	P	136	32.047	20.891	7.515	1.00	71.85
ATOM	28127	CA	ASN	P	136	30.896	20.057	7.199	1.00	72.98
ATOM	28128	C	ASN	P	136	29.883	20.880	6.405	1.00	75.26
ATOM	28129	O	ASN	P	136	28.673	20.724	6.563	1.00	77.16
ATOM	28130	CB	ASN	P	136	30.240	19.512	8.477	1.00	68.05
ATOM	28131	CG	ASN	P	136	29.490	20.576	9.256	1.00	65.83
ATOM	28132	OD1	ASN	P	136	28.616	20.260	10.064	1.00	64.04
ATOM	28133	ND2	ASN	P	136	29.831	21.841	9.026	1.00	63.57
ATOM	28134	N	TYR	P	137	30.386	21.767	5.556	1.00	77.18
ATOM	28135	CA	TYR	P	137	29.520	22.604	4.742	1.00	79.41
ATOM	28136	C	TYR	P	137	29.752	22.366	3.255	1.00	79.17
ATOM	28137	O	TYR	P	137	28.813	22.433	2.465	1.00	77.68
ATOM	28138	CB	TYR	P	137	29.745	24.079	5.068	1.00	82.23
ATOM	28139	CG	TYR	P	137	28.940	25.012	4.192	1.00	87.26
ATOM	28140	CD1	TYR	P	137	27.544	24.978	4.202	1.00	89.39
ATOM	28141	CD2	TYR	P	137	29.572	25.922	3.343	1.00	87.95
ATOM	28142	CE1	TYR	P	137	26.797	25.823	3.388	1.00	90.94
ATOM	28143	CE2	TYR	P	137	28.834	26.773	2.525	1.00	90.50
ATOM	28144	CZ	TYR	P	137	27.448	26.717	2.550	1.00	91.95
ATOM	28145	OH	TYR	P	137	26.714	27.535	1.721	1.00	95.00
ATOM	28146	N	ASN	P	138	31.001	22.093	2.880	1.00	79.94

ATOM	28147	CA	ASN	P	138	31.358	21.833	1.483	1.00	80.69
ATOM	28148	C	ASN	P	138	32.647	21.020	1.322	1.00	80.66
ATOM	28149	O	ASN	P	138	33.240	20.581	2.304	1.00	81.86
ATOM	28150	CB	ASN	P	138	31.482	23.151	0.715	1.00	80.53
ATOM	28151	CG	ASN	P	138	32.539	24.065	1.286	1.00	79.47
ATOM	28152	OD1	ASN	P	138	32.703	25.188	0.825	1.00	80.17
ATOM	28153	ND2	ASN	P	138	33.262	23.590	2.291	1.00	79.78
ATOM	28154	N	SER	P	139	33.079	20.825	0.080	1.00	81.05
ATOM	28155	CA	SER	P	139	34.286	20.048	-0.196	1.00	82.18
ATOM	28156	C	SER	P	139	35.569	20.869	-0.095	1.00	82.04
ATOM	28157	O	SER	P	139	36.499	20.695	-0.890	1.00	79.60
ATOM	28158	CB	SER	P	139	34.198	19.397	-1.586	1.00	83.98
ATOM	28159	OG	SER	P	139	34.181	20.368	-2.620	1.00	82.87
ATOM	28160	N	ASP	P	140	35.615	21.765	0.884	1.00	82.90
ATOM	28161	CA	ASP	P	140	36.797	22.585	1.089	1.00	84.89
ATOM	28162	C	ASP	P	140	37.857	21.825	1.879	1.00	85.31
ATOM	28163	O	ASP	P	140	37.679	21.526	3.060	1.00	85.10
ATOM	28164	CB	ASP	P	140	36.446	23.879	1.826	1.00	86.86
ATOM	28165	CG	ASP	P	140	36.303	25.063	0.891	1.00	88.87
ATOM	28166	OD1	ASP	P	140	36.217	24.845	-0.336	1.00	90.81
ATOM	28167	OD2	ASP	P	140	36.273	26.212	1.383	1.00	90.56
ATOM	28168	N	ASP	P	141	38.959	21.510	1.208	1.00	85.57
ATOM	28169	CA	ASP	P	141	40.069	20.799	1.823	1.00	85.43
ATOM	28170	C	ASP	P	141	41.291	21.679	1.621	1.00	85.53
ATOM	28171	O	ASP	P	141	41.792	21.805	0.504	1.00	85.50
ATOM	28172	CB	ASP	P	141	40.274	19.446	1.134	1.00	85.41
ATOM	28173	CG	ASP	P	141	41.430	18.654	1.720	1.00	85.48
ATOM	28174	OD1	ASP	P	141	42.553	19.197	1.809	1.00	89.23
ATOM	28175	OD2	ASP	P	141	41.220	17.480	2.081	1.00	83.34
ATOM	28176	N	PHE	P	142	41.760	22.298	2.698	1.00	85.05
ATOM	28177	CA	PHE	P	142	42.922	23.169	2.609	1.00	85.88
ATOM	28178	C	PHE	P	142	44.098	22.619	3.411	1.00	86.72
ATOM	28179	O	PHE	P	142	43.938	21.675	4.185	1.00	87.38
ATOM	28180	CB	PHE	P	142	42.540	24.576	3.084	1.00	83.57
ATOM	28181	CG	PHE	P	142	41.602	25.296	2.148	1.00	82.52
ATOM	28182	CD1	PHE	P	142	41.631	25.039	0.773	1.00	81.26
ATOM	28183	CD2	PHE	P	142	40.692	26.228	2.634	1.00	82.61
ATOM	28184	CE1	PHE	P	142	40.771	25.697	-0.101	1.00	79.37
ATOM	28185	CE2	PHE	P	142	39.822	26.896	1.764	1.00	83.30
ATOM	28186	CZ	PHE	P	142	39.863	26.627	0.394	1.00	81.49
ATOM	28187	N	GLN	P	143	45.282	23.194	3.210	1.00	87.20
ATOM	28188	CA	GLN	P	143	46.463	22.740	3.933	1.00	87.05
ATOM	28189	C	GLN	P	143	47.368	23.839	4.460	1.00	86.50
ATOM	28190	O	GLN	P	143	48.386	24.160	3.848	1.00	86.49
ATOM	28191	CB	GLN	P	143	47.297	21.793	3.073	1.00	86.82
ATOM	28192	CG	GLN	P	143	46.703	20.411	2.934	1.00	91.16
ATOM	28193	CD	GLN	P	143	47.758	19.357	2.641	1.00	94.10
ATOM	28194	OE1	GLN	P	143	48.585	19.519	1.740	1.00	94.65
ATOM	28195	NE2	GLN	P	143	47.731	18.265	3.403	1.00	94.29
ATOM	28196	N	PHE	P	144	46.995	24.406	5.603	1.00	86.00
ATOM	28197	CA	PHE	P	144	47.800	25.441	6.240	1.00	85.42
ATOM	28198	C	PHE	P	144	49.106	24.764	6.672	1.00	84.17
ATOM	28199	O	PHE	P	144	49.082	23.793	7.427	1.00	83.63
ATOM	28200	CB	PHE	P	144	47.084	25.990	7.480	1.00	87.08
ATOM	28201	CG	PHE	P	144	45.736	26.599	7.197	1.00	88.17
ATOM	28202	CD1	PHE	P	144	44.714	25.838	6.639	1.00	88.42
ATOM	28203	CD2	PHE	P	144	45.482	27.929	7.517	1.00	87.45
ATOM	28204	CE1	PHE	P	144	43.462	26.396	6.403	1.00	88.81
ATOM	28205	CE2	PHE	P	144	44.236	28.494	7.284	1.00	87.55
ATOM	28206	CZ	PHE	P	144	43.224	27.728	6.728	1.00	88.12
ATOM	28207	N	VAL	P	145	50.240	25.266	6.197	1.00	82.80
ATOM	28208	CA	VAL	P	145	51.521	24.671	6.558	1.00	82.21

ATOM	28209	C	VAL	P	145	52.280	25.498	7.591	1.00	83.06
ATOM	28210	O	VAL	P	145	52.034	26.694	7.749	1.00	82.82
ATOM	28211	CB	VAL	P	145	52.424	24.490	5.322	1.00	79.79
ATOM	28212	CG1	VAL	P	145	53.687	23.742	5.712	1.00	77.25
ATOM	28213	CG2	VAL	P	145	51.674	23.744	4.242	1.00	77.04
ATOM	28214	N	TRP	P	146	53.199	24.842	8.294	1.00	83.73
ATOM	28215	CA	TRP	P	146	54.020	25.485	9.316	1.00	84.35
ATOM	28216	C	TRP	P	146	55.440	24.901	9.273	1.00	85.06
ATOM	28217	O	TRP	P	146	55.616	23.679	9.200	1.00	86.63
ATOM	28218	CB	TRP	P	146	53.433	25.255	10.720	1.00	83.20
ATOM	28219	CG	TRP	P	146	51.950	25.514	10.858	1.00	82.81
ATOM	28220	CD1	TRP	P	146	50.946	24.587	10.808	1.00	81.21
ATOM	28221	CD2	TRP	P	146	51.312	26.782	11.078	1.00	81.94
ATOM	28222	NE1	TRP	P	146	49.728	25.198	10.984	1.00	80.06
ATOM	28223	CE2	TRP	P	146	49.925	26.544	11.150	1.00	80.45
ATOM	28224	CE3	TRP	P	146	51.781	28.096	11.221	1.00	80.50
ATOM	28225	CZ2	TRP	P	146	49.003	27.570	11.360	1.00	79.54
ATOM	28226	CZ3	TRP	P	146	50.862	29.114	11.430	1.00	78.07
ATOM	28227	CH2	TRP	P	146	49.490	28.844	11.496	1.00	78.18
ATOM	28228	N	ASN	P	147	56.446	25.772	9.320	1.00	83.11
ATOM	28229	CA	ASN	P	147	57.838	25.336	9.300	1.00	80.80
ATOM	28230	C	ASN	P	147	58.501	25.707	10.620	1.00	81.58
ATOM	28231	O	ASN	P	147	58.850	26.860	10.848	1.00	82.02
ATOM	28232	CB	ASN	P	147	58.579	26.001	8.148	1.00	76.72
ATOM	28233	CG	ASN	P	147	57.878	25.807	6.828	1.00	76.91
ATOM	28234	OD1	ASN	P	147	57.628	24.679	6.404	1.00	75.34
ATOM	28235	ND2	ASN	P	147	57.549	26.909	6.167	1.00	76.68
ATOM	28236	N	ILE	P	148	58.674	24.722	11.489	1.00	82.22
ATOM	28237	CA	ILE	P	148	59.283	24.958	12.787	1.00	83.59
ATOM	28238	C	ILE	P	148	60.802	25.141	12.738	1.00	85.52
ATOM	28239	O	ILE	P	148	61.541	24.194	12.479	1.00	85.51
ATOM	28240	CB	ILE	P	148	58.945	23.811	13.760	1.00	82.66
ATOM	28241	CG1	ILE	P	148	57.479	23.908	14.195	1.00	82.49
ATOM	28242	CG2	ILE	P	148	59.856	23.876	14.982	1.00	83.11
ATOM	28243	CD1	ILE	P	148	56.478	23.943	13.060	1.00	81.40
ATOM	28244	N	TYR	P	149	61.253	26.369	12.994	1.00	88.00
ATOM	28245	CA	TYR	P	149	62.677	26.699	13.012	1.00	88.78
ATOM	28246	C	TYR	P	149	63.166	26.934	14.433	1.00	90.37
ATOM	28247	O	TYR	P	149	62.374	27.207	15.340	1.00	88.84
ATOM	28248	CB	TYR	P	149	62.961	27.956	12.200	1.00	86.94
ATOM	28249	CG	TYR	P	149	62.953	27.758	10.708	1.00	87.27
ATOM	28250	CD1	TYR	P	149	64.111	27.378	10.035	1.00	87.71
ATOM	28251	CD2	TYR	P	149	61.805	27.993	9.962	1.00	87.55
ATOM	28252	CE1	TYR	P	149	64.130	27.245	8.650	1.00	88.17
ATOM	28253	CE2	TYR	P	149	61.813	27.865	8.577	1.00	88.37
ATOM	28254	CZ	TYR	P	149	62.980	27.494	7.926	1.00	88.53
ATOM	28255	OH	TYR	P	149	63.005	27.393	6.552	1.00	89.01
ATOM	28256	N	ALA	P	150	64.480	26.846	14.615	1.00	93.16
ATOM	28257	CA	ALA	P	150	65.087	27.041	15.929	1.00	95.78
ATOM	28258	C	ALA	P	150	65.864	28.351	16.011	1.00	96.86
ATOM	28259	O	ALA	P	150	66.809	28.568	15.258	1.00	96.00
ATOM	28260	CB	ALA	P	150	66.011	25.874	16.254	1.00	95.21
ATOM	28261	N	ASN	P	151	65.456	29.222	16.930	1.00	99.11
ATOM	28262	CA	ASN	P	151	66.128	30.503	17.113	1.00	100.92
ATOM	28263	C	ASN	P	151	67.410	30.317	17.910	1.00	100.92
ATOM	28264	O	ASN	P	151	68.378	31.058	17.729	1.00	100.74
ATOM	28265	CB	ASN	P	151	65.211	31.493	17.833	1.00	102.18
ATOM	28266	CG	ASN	P	151	64.148	32.070	16.921	1.00	104.19
ATOM	28267	OD1	ASN	P	151	64.448	32.811	15.978	1.00	104.74
ATOM	28268	ND2	ASN	P	151	62.896	31.730	17.192	1.00	104.47
ATOM	28269	N	ASN	P	152	67.409	29.318	18.787	1.00	100.75
ATOM	28270	CA	ASN	P	152	68.568	29.030	19.618	1.00	100.58

ATOM	28271	C	ASN	P	152	69.259	27.738	19.203	1.00101.37
ATOM	28272	O	ASN	P	152	69.126	27.275	18.066	1.00100.73
ATOM	28273	CB	ASN	P	152	68.154	28.928	21.086	1.00 98.94
ATOM	28274	CG	ASN	P	152	67.241	27.756	21.349	1.00 98.39
ATOM	28275	OD1	ASN	P	152	66.157	27.660	20.774	1.00 99.44
ATOM	28276	ND2	ASN	P	152	67.673	26.851	22.220	1.00 98.61
ATOM	28277	N	ASP	P	153	69.998	27.165	20.147	1.00102.49
ATOM	28278	CA	ASP	P	153	70.734	25.928	19.926	1.00102.52
ATOM	28279	C	ASP	P	153	70.668	25.053	21.166	1.00102.45
ATOM	28280	O	ASP	P	153	71.305	25.347	22.178	1.00101.28
ATOM	28281	CB	ASP	P	153	72.202	26.234	19.597	1.00101.57
ATOM	28282	CG	ASP	P	153	72.395	26.724	18.173	1.00101.13
ATOM	28283	OD1	ASP	P	153	71.654	27.638	17.756	1.00101.29
ATOM	28284	OD2	ASP	P	153	73.290	26.201	17.473	1.00 99.42
ATOM	28285	N	VAL	P	154	69.888	23.981	21.090	1.00103.71
ATOM	28286	CA	VAL	P	154	69.771	23.063	22.218	1.00105.09
ATOM	28287	C	VAL	P	154	71.118	22.372	22.407	1.00104.75
ATOM	28288	O	VAL	P	154	71.903	22.240	21.464	1.00104.03
ATOM	28289	CB	VAL	P	154	68.679	21.977	21.978	1.00106.05
ATOM	28290	CG1	VAL	P	154	68.607	21.022	23.177	1.00103.50
ATOM	28291	CG2	VAL	P	154	67.325	22.640	21.744	1.00105.90
ATOM	28292	N	VAL	P	155	71.385	21.943	23.632	1.00104.40
ATOM	28293	CA	VAL	P	155	72.633	21.269	23.929	1.00104.09
ATOM	28294	C	VAL	P	155	72.361	19.941	24.611	1.00104.80
ATOM	28295	O	VAL	P	155	71.480	19.832	25.466	1.00103.44
ATOM	28296	CB	VAL	P	155	73.535	22.134	24.828	1.00103.11
ATOM	28297	CG1	VAL	P	155	74.811	21.385	25.156	1.00101.60
ATOM	28298	CG2	VAL	P	155	73.852	23.441	24.128	1.00101.19
ATOM	28299	N	VAL	P	156	73.114	18.927	24.203	1.00106.11
ATOM	28300	CA	VAL	P	156	72.985	17.593	24.764	1.00108.03
ATOM	28301	C	VAL	P	156	74.223	17.340	25.618	1.00109.12
ATOM	28302	O	VAL	P	156	75.196	16.736	25.161	1.00109.51
ATOM	28303	CB	VAL	P	156	72.904	16.518	23.655	1.00107.81
ATOM	28304	CG1	VAL	P	156	72.626	15.153	24.275	1.00106.89
ATOM	28305	CG2	VAL	P	156	71.820	16.885	22.647	1.00107.95
ATOM	28306	N	PRO	P	157	74.204	17.820	26.873	1.00109.50
ATOM	28307	CA	PRO	P	157	75.317	17.657	27.807	1.00109.50
ATOM	28308	C	PRO	P	157	76.035	16.320	27.699	1.00109.99
ATOM	28309	O	PRO	P	157	75.491	15.279	28.065	1.00109.29
ATOM	28310	CB	PRO	P	157	74.647	17.859	29.157	1.00108.59
ATOM	28311	CG	PRO	P	157	73.695	18.961	28.850	1.00108.31
ATOM	28312	CD	PRO	P	157	73.091	18.538	27.521	1.00108.77
ATOM	28313	N	THR	P	158	77.258	16.368	27.175	1.00111.56
ATOM	28314	CA	THR	P	158	78.084	15.180	27.032	1.00113.21
ATOM	28315	C	THR	P	158	78.295	14.616	28.437	1.00115.32
ATOM	28316	O	THR	P	158	78.906	15.257	29.297	1.00115.56
ATOM	28317	CB	THR	P	158	79.446	15.524	26.381	1.00111.89
ATOM	28318	OG1	THR	P	158	80.283	14.364	26.374	1.00110.89
ATOM	28319	CG2	THR	P	158	80.139	16.639	27.143	1.00111.87
ATOM	28320	N	GLY	P	159	77.765	13.420	28.664	1.00117.40
ATOM	28321	CA	GLY	P	159	77.870	12.793	29.967	1.00120.26
ATOM	28322	C	GLY	P	159	79.107	11.951	30.194	1.00122.33
ATOM	28323	O	GLY	P	159	79.971	11.838	29.323	1.00121.67
ATOM	28324	N	GLY	P	160	79.172	11.351	31.380	1.00124.80
ATOM	28325	CA	GLY	P	160	80.304	10.523	31.755	1.00127.76
ATOM	28326	C	GLY	P	160	80.543	9.296	30.896	1.00129.47
ATOM	28327	O	GLY	P	160	79.610	8.698	30.359	1.00129.05
ATOM	28328	N	CYS	P	161	81.813	8.927	30.768	1.00131.54
ATOM	28329	CA	CYS	P	161	82.202	7.764	29.987	1.00133.54
ATOM	28330	C	CYS	P	161	81.949	6.533	30.832	1.00134.59
ATOM	28331	O	CYS	P	161	82.476	6.408	31.940	1.00134.79
ATOM	28332	CB	CYS	P	161	83.678	7.855	29.612	1.00133.52

ATOM	28333	SG	CYS	P	161	84.052	9.364	28.668	1.00135.66
ATOM	28334	N	ASP	P	162	81.128	5.632	30.308	1.00135.80
ATOM	28335	CA	ASP	P	162	80.790	4.415	31.025	1.00136.84
ATOM	28336	C	ASP	P	162	82.032	3.579	31.281	1.00136.92
ATOM	28337	O	ASP	P	162	82.530	2.883	30.391	1.00136.23
ATOM	28338	CB	ASP	P	162	79.751	3.605	30.239	1.00137.86
ATOM	28339	CG	ASP	P	162	79.273	2.370	30.992	1.00138.38
ATOM	28340	OD1	ASP	P	162	78.923	2.494	32.186	1.00138.60
ATOM	28341	OD2	ASP	P	162	79.235	1.278	30.388	1.00137.72
ATOM	28342	N	VAL	P	163	82.537	3.680	32.507	1.00137.25
ATOM	28343	CA	VAL	P	163	83.711	2.930	32.925	1.00137.28
ATOM	28344	C	VAL	P	163	83.187	1.605	33.460	1.00136.93
ATOM	28345	O	VAL	P	163	82.999	1.438	34.666	1.00136.71
ATOM	28346	CB	VAL	P	163	84.487	3.675	34.039	1.00137.07
ATOM	28347	CG1	VAL	P	163	85.693	2.854	34.477	1.00136.89
ATOM	28348	CG2	VAL	P	163	84.931	5.045	33.536	1.00136.22
ATOM	28349	N	SER	P	164	82.939	0.673	32.547	1.00136.60
ATOM	28350	CA	SER	P	164	82.414	-0.632	32.912	1.00136.67
ATOM	28351	C	SER	P	164	83.461	-1.598	33.443	1.00137.10
ATOM	28352	O	SER	P	164	84.423	-1.938	32.754	1.00136.90
ATOM	28353	CB	SER	P	164	81.702	-1.262	31.715	1.00136.63
ATOM	28354	OG	SER	P	164	80.499	-0.575	31.425	1.00135.37
ATOM	28355	N	ALA	P	165	83.257	-2.029	34.683	1.00137.51
ATOM	28356	CA	ALA	P	165	84.142	-2.979	35.340	1.00138.12
ATOM	28357	C	ALA	P	165	83.358	-4.284	35.435	1.00139.02
ATOM	28358	O	ALA	P	165	82.208	-4.350	34.992	1.00139.34
ATOM	28359	CB	ALA	P	165	84.510	-2.480	36.731	1.00137.41
ATOM	28360	N	ARG	P	166	83.965	-5.319	36.006	1.00139.64
ATOM	28361	CA	ARG	P	166	83.278	-6.600	36.136	1.00139.82
ATOM	28362	C	ARG	P	166	82.766	-6.841	37.559	1.00141.03
ATOM	28363	O	ARG	P	166	81.555	-6.907	37.782	1.00141.04
ATOM	28364	CB	ARG	P	166	84.198	-7.747	35.702	1.00137.30
ATOM	28365	CG	ARG	P	166	84.843	-7.533	34.342	1.00134.38
ATOM	28366	CD	ARG	P	166	83.831	-7.122	33.283	1.00132.83
ATOM	28367	NE	ARG	P	166	84.465	-6.754	32.016	1.00129.68
ATOM	28368	CZ	ARG	P	166	85.126	-7.599	31.232	1.00127.89
ATOM	28369	NH1	ARG	P	166	85.247	-8.872	31.576	1.00127.30
ATOM	28370	NH2	ARG	P	166	85.663	-7.172	30.099	1.00126.57
ATOM	28371	N	ASP	P	167	83.680	-6.960	38.520	1.00142.13
ATOM	28372	CA	ASP	P	167	83.286	-7.200	39.905	1.00143.56
ATOM	28373	C	ASP	P	167	84.437	-7.019	40.892	1.00144.57
ATOM	28374	O	ASP	P	167	84.634	-5.936	41.446	1.00144.15
ATOM	28375	CB	ASP	P	167	82.715	-8.616	40.043	1.00144.08
ATOM	28376	CG	ASP	P	167	82.238	-8.926	41.454	1.00144.69
ATOM	28377	OD1	ASP	P	167	82.287	-8.024	42.319	1.00144.23
ATOM	28378	OD2	ASP	P	167	81.810	-10.077	41.697	1.00145.29
ATOM	28379	N	VAL	P	168	85.190	-8.092	41.111	1.00146.09
ATOM	28380	CA	VAL	P	168	86.314	-8.075	42.039	1.00147.49
ATOM	28381	C	VAL	P	168	87.348	-9.140	41.665	1.00148.45
ATOM	28382	O	VAL	P	168	87.181	-10.318	41.977	1.00148.69
ATOM	28383	CB	VAL	P	168	85.820	-8.309	43.488	1.00147.58
ATOM	28384	CG1	VAL	P	168	84.915	-9.531	43.544	1.00148.50
ATOM	28385	CG2	VAL	P	168	86.996	-8.488	44.419	1.00147.61
ATOM	28386	N	THR	P	169	88.413	-8.717	40.990	1.00149.99
ATOM	28387	CA	THR	P	169	89.472	-9.629	40.567	1.00151.38
ATOM	28388	C	THR	P	169	89.909	-10.510	41.730	1.00151.64
ATOM	28389	O	THR	P	169	90.571	-10.050	42.660	1.00151.72
ATOM	28390	CB	THR	P	169	90.702	-8.856	40.023	1.00152.33
ATOM	28391	OG1	THR	P	169	90.348	-8.182	38.806	1.00152.48
ATOM	28392	CG2	THR	P	169	91.858	-9.811	39.747	1.00152.99
ATOM	28393	N	VAL	P	170	89.533	-11.783	41.663	1.00152.10
ATOM	28394	CA	VAL	P	170	89.858	-12.747	42.709	1.00152.56

ATOM	28395	C	VAL	P	170	91.183	-13.468	42.451	1.00153.32
ATOM	28396	O	VAL	P	170	91.196	-14.659	42.138	1.00153.93
ATOM	28397	CB	VAL	P	170	88.737	-13.800	42.833	1.00151.82
ATOM	28398	CG1	VAL	P	170	88.980	-14.683	44.035	1.00151.28
ATOM	28399	CG2	VAL	P	170	87.395	-13.113	42.940	1.00151.33
ATOM	28400	N	THR	P	171	92.295	-12.749	42.587	1.00153.55
ATOM	28401	CA	THR	P	171	93.614	-13.338	42.368	1.00153.74
ATOM	28402	C	THR	P	171	94.014	-14.280	43.508	1.00154.16
ATOM	28403	O	THR	P	171	94.991	-14.040	44.216	1.00153.64
ATOM	28404	CB	THR	P	171	94.692	-12.238	42.197	1.00153.39
ATOM	28405	OG1	THR	P	171	95.996	-12.834	42.200	1.00153.43
ATOM	28406	CG2	THR	P	171	94.594	-11.212	43.311	1.00153.31
ATOM	28407	N	LEU	P	172	93.252	-15.362	43.659	1.00155.25
ATOM	28408	CA	LEU	P	172	93.491	-16.367	44.697	1.00156.54
ATOM	28409	C	LEU	P	172	94.835	-17.096	44.572	1.00157.11
ATOM	28410	O	LEU	P	172	95.396	-17.538	45.582	1.00156.84
ATOM	28411	CB	LEU	P	172	92.338	-17.395	44.711	1.00156.91
ATOM	28412	CG	LEU	P	172	92.290	-18.525	45.758	1.00156.45
ATOM	28413	CD1	LEU	P	172	90.888	-19.121	45.798	1.00155.03
ATOM	28414	CD2	LEU	P	172	93.313	-19.610	45.436	1.00155.55
ATOM	28415	N	PRO	P	173	95.369	-17.240	43.341	1.00157.53
ATOM	28416	CA	PRO	P	173	96.654	-17.939	43.235	1.00158.02
ATOM	28417	C	PRO	P	173	97.681	-17.445	44.251	1.00158.17
ATOM	28418	O	PRO	P	173	97.678	-16.274	44.636	1.00158.34
ATOM	28419	CB	PRO	P	173	97.073	-17.680	41.783	1.00157.63
ATOM	28420	CG	PRO	P	173	96.342	-16.415	41.422	1.00156.91
ATOM	28421	CD	PRO	P	173	94.996	-16.662	42.039	1.00157.17
ATOM	28422	N	ASP	P	174	98.550	-18.351	44.686	1.00158.19
ATOM	28423	CA	ASP	P	174	99.577	-18.025	45.663	1.00158.40
ATOM	28424	C	ASP	P	174	100.371	-16.781	45.287	1.00158.57
ATOM	28425	O	ASP	P	174	100.030	-16.069	44.344	1.00158.42
ATOM	28426	CB	ASP	P	174	100.521	-19.215	45.842	1.00158.74
ATOM	28427	CG	ASP	P	174	99.827	-20.421	46.452	1.00159.78
ATOM	28428	OD1	ASP	P	174	98.797	-20.861	45.896	1.00160.47
ATOM	28429	OD2	ASP	P	174	100.311	-20.928	47.486	1.00160.17
ATOM	28430	N	TYR	P	175	101.438	-16.533	46.036	1.00159.08
ATOM	28431	CA	TYR	P	175	102.297	-15.374	45.821	1.00159.63
ATOM	28432	C	TYR	P	175	102.638	-15.046	44.355	1.00159.35
ATOM	28433	O	TYR	P	175	102.563	-13.885	43.944	1.00159.64
ATOM	28434	CB	TYR	P	175	103.586	-15.540	46.641	1.00160.14
ATOM	28435	CG	TYR	P	175	104.528	-14.356	46.575	1.00160.73
ATOM	28436	CD1	TYR	P	175	104.081	-13.063	46.854	1.00160.62
ATOM	28437	CD2	TYR	P	175	105.869	-14.528	46.230	1.00161.08
ATOM	28438	CE1	TYR	P	175	104.945	-11.972	46.788	1.00160.36
ATOM	28439	CE2	TYR	P	175	106.740	-13.444	46.164	1.00160.99
ATOM	28440	CZ	TYR	P	175	106.272	-12.172	46.442	1.00160.50
ATOM	28441	OH	TYR	P	175	107.133	-11.105	46.366	1.00160.59
ATOM	28442	N	PRO	P	176	103.009	-16.056	43.547	1.00158.47
ATOM	28443	CA	PRO	P	176	103.347	-15.783	42.144	1.00157.73
ATOM	28444	C	PRO	P	176	102.154	-15.439	41.252	1.00157.47
ATOM	28445	O	PRO	P	176	102.332	-14.951	40.135	1.00157.38
ATOM	28446	CB	PRO	P	176	104.034	-17.069	41.707	1.00157.46
ATOM	28447	CG	PRO	P	176	103.271	-18.106	42.468	1.00157.45
ATOM	28448	CD	PRO	P	176	103.178	-17.489	43.851	1.00157.94
ATOM	28449	N	GLY	P	177	100.947	-15.688	41.752	1.00157.13
ATOM	28450	CA	GLY	P	177	99.741	-15.421	40.982	1.00156.58
ATOM	28451	C	GLY	P	177	99.459	-13.976	40.601	1.00156.09
ATOM	28452	O	GLY	P	177	99.210	-13.134	41.465	1.00155.89
ATOM	28453	N	SER	P	178	99.488	-13.699	39.297	1.00155.50
ATOM	28454	CA	SER	P	178	99.225	-12.361	38.760	1.00154.09
ATOM	28455	C	SER	P	178	98.371	-12.451	37.486	1.00152.58
ATOM	28456	O	SER	P	178	98.873	-12.760	36.401	1.00151.60

ATOM	28457	CB	SER	P	178	100.545	-11.636	38.455	1.00154.81
ATOM	28458	OG	SER	P	178	101.282	-12.291	37.435	1.00156.11
ATOM	28459	N	VAL	P	179	97.077	-12.178	37.634	1.00151.04
ATOM	28460	CA	VAL	P	179	96.131	-12.233	36.520	1.00149.12
ATOM	28461	C	VAL	P	179	95.752	-10.838	36.025	1.00147.70
ATOM	28462	O	VAL	P	179	95.764	-9.878	36.793	1.00148.44
ATOM	28463	CB	VAL	P	179	94.822	-12.958	36.932	1.00149.13
ATOM	28464	CG1	VAL	P	179	95.118	-14.398	37.326	1.00149.03
ATOM	28465	CG2	VAL	P	179	94.155	-12.216	38.086	1.00147.96
ATOM	28466	N	PRO	P	180	95.418	-10.709	34.729	1.00145.78
ATOM	28467	CA	PRO	P	180	95.031	-9.410	34.168	1.00144.06
ATOM	28468	C	PRO	P	180	93.651	-8.977	34.677	1.00142.96
ATOM	28469	O	PRO	P	180	92.718	-9.781	34.741	1.00142.13
ATOM	28470	CB	PRO	P	180	95.062	-9.664	32.662	1.00143.75
ATOM	28471	CG	PRO	P	180	94.694	-11.109	32.563	1.00144.06
ATOM	28472	CD	PRO	P	180	95.512	-11.728	33.669	1.00145.01
ATOM	28473	N	ILE	P	181	93.534	-7.703	35.040	1.00142.17
ATOM	28474	CA	ILE	P	181	92.287	-7.159	35.572	1.00141.68
ATOM	28475	C	ILE	P	181	91.332	-6.644	34.497	1.00141.45
ATOM	28476	O	ILE	P	181	91.734	-5.904	33.596	1.00142.17
ATOM	28477	CB	ILE	P	181	92.565	-6.002	36.553	1.00141.18
ATOM	28478	CG1	ILE	P	181	93.555	-6.456	37.627	1.00140.83
ATOM	28479	CG2	ILE	P	181	91.262	-5.544	37.197	1.00141.26
ATOM	28480	CD1	ILE	P	181	94.036	-5.343	38.527	1.00140.38
ATOM	28481	N	PRO	P	182	90.048	-7.032	34.586	1.00140.78
ATOM	28482	CA	PRO	P	182	88.995	-6.631	33.643	1.00139.97
ATOM	28483	C	PRO	P	182	88.578	-5.161	33.793	1.00139.38
ATOM	28484	O	PRO	P	182	88.108	-4.757	34.858	1.00139.27
ATOM	28485	CB	PRO	P	182	87.849	-7.581	33.985	1.00139.79
ATOM	28486	CG	PRO	P	182	88.538	-8.772	34.587	1.00139.60
ATOM	28487	CD	PRO	P	182	89.572	-8.123	35.454	1.00140.03
ATOM	28488	N	LEU	P	183	88.736	-4.377	32.724	1.00138.40
ATOM	28489	CA	LEU	P	183	88.380	-2.956	32.751	1.00137.55
ATOM	28490	C	LEU	P	183	88.396	-2.273	31.381	1.00137.05
ATOM	28491	O	LEU	P	183	89.375	-2.366	30.647	1.00136.33
ATOM	28492	CB	LEU	P	183	89.321	-2.204	33.698	1.00137.42
ATOM	28493	CG	LEU	P	183	88.943	-2.158	35.182	1.00136.81
ATOM	28494	CD1	LEU	P	183	90.191	-2.200	36.046	1.00136.16
ATOM	28495	CD2	LEU	P	183	88.129	-0.903	35.454	1.00136.75
ATOM	28496	N	THR	P	184	87.303	-1.584	31.055	1.00137.06
ATOM	28497	CA	THR	P	184	87.157	-0.857	29.789	1.00136.79
ATOM	28498	C	THR	P	184	86.308	0.397	30.011	1.00136.95
ATOM	28499	O	THR	P	184	85.497	0.448	30.939	1.00137.11
ATOM	28500	CB	THR	P	184	86.460	-1.712	28.705	1.00136.62
ATOM	28501	OG1	THR	P	184	85.159	-2.106	29.164	1.00136.05
ATOM	28502	CG2	THR	P	184	87.278	-2.947	28.387	1.00135.82
ATOM	28503	N	VAL	P	185	86.487	1.405	29.161	1.00136.11
ATOM	28504	CA	VAL	P	185	85.722	2.646	29.289	1.00135.47
ATOM	28505	C	VAL	P	185	85.337	3.223	27.930	1.00134.80
ATOM	28506	O	VAL	P	185	86.056	3.043	26.946	1.00134.45
ATOM	28507	CB	VAL	P	185	86.516	3.725	30.067	1.00135.99
ATOM	28508	CG1	VAL	P	185	86.897	3.207	31.443	1.00135.08
ATOM	28509	CG2	VAL	P	185	87.755	4.123	29.288	1.00136.62
ATOM	28510	N	TYR	P	186	84.203	3.921	27.885	1.00133.99
ATOM	28511	CA	TYR	P	186	83.716	4.524	26.647	1.00133.06
ATOM	28512	C	TYR	P	186	82.688	5.627	26.891	1.00131.49
ATOM	28513	O	TYR	P	186	82.070	5.687	27.952	1.00129.50
ATOM	28514	CB	TYR	P	186	83.124	3.439	25.739	1.00135.31
ATOM	28515	CG	TYR	P	186	82.321	2.393	26.482	1.00138.29
ATOM	28516	CD1	TYR	P	186	81.096	2.709	27.066	1.00139.48
ATOM	28517	CD2	TYR	P	186	82.802	1.090	26.624	1.00139.64
ATOM	28518	CE1	TYR	P	186	80.369	1.755	27.775	1.00140.06

ATOM	28519	CE2	TYR	P	186	82.084	0.128	27.336	1.00140.84
ATOM	28520	CZ	TYR	P	186	80.866	0.469	27.909	1.00141.21
ATOM	28521	OH	TYR	P	186	80.147	-0.470	28.617	1.00142.25
ATOM	28522	N	CYS	P	187	82.517	6.496	25.894	1.00131.09
ATOM	28523	CA	CYS	P	187	81.578	7.618	25.971	1.00130.67
ATOM	28524	C	CYS	P	187	80.763	7.778	24.684	1.00129.02
ATOM	28525	O	CYS	P	187	81.265	7.533	23.583	1.00128.50
ATOM	28526	CB	CYS	P	187	82.330	8.933	26.218	1.00132.14
ATOM	28527	SG	CYS	P	187	84.064	8.745	26.734	1.00132.98
ATOM	28528	N	ALA	P	188	79.510	8.205	24.830	1.00126.57
ATOM	28529	CA	ALA	P	188	78.640	8.426	23.680	1.00123.46
ATOM	28530	C	ALA	P	188	79.420	9.307	22.715	1.00121.35
ATOM	28531	O	ALA	P	188	79.432	9.084	21.506	1.00119.32
ATOM	28532	CB	ALA	P	188	77.365	9.128	24.121	1.00123.67
ATOM	28533	N	LYS	P	189	80.077	10.311	23.285	1.00120.23
ATOM	28534	CA	LYS	P	189	80.895	11.245	22.530	1.00119.37
ATOM	28535	C	LYS	P	189	82.340	11.127	22.999	1.00118.19
ATOM	28536	O	LYS	P	189	82.646	11.306	24.181	1.00117.62
ATOM	28537	CB	LYS	P	189	80.395	12.679	22.729	1.00119.88
ATOM	28538	CG	LYS	P	189	79.087	12.987	22.014	1.00120.35
ATOM	28539	CD	LYS	P	189	79.255	12.991	20.496	1.00121.77
ATOM	28540	CE	LYS	P	189	80.159	14.132	20.035	1.00123.12
ATOM	28541	NZ	LYS	P	189	80.305	14.189	18.550	1.00122.48
ATOM	28542	N	SER	P	190	83.222	10.817	22.059	1.00117.19
ATOM	28543	CA	SER	P	190	84.636	10.663	22.351	1.00116.65
ATOM	28544	C	SER	P	190	85.249	11.936	22.914	1.00115.94
ATOM	28545	O	SER	P	190	85.336	12.950	22.222	1.00116.43
ATOM	28546	CB	SER	P	190	85.388	10.258	21.082	1.00117.34
ATOM	28547	OG	SER	P	190	86.778	10.135	21.329	1.00119.25
ATOM	28548	N	GLN	P	191	85.668	11.872	24.172	1.00114.30
ATOM	28549	CA	GLN	P	191	86.303	13.001	24.843	1.00113.39
ATOM	28550	C	GLN	P	191	87.618	12.491	25.413	1.00113.46
ATOM	28551	O	GLN	P	191	87.705	11.332	25.819	1.00115.09
ATOM	28552	CB	GLN	P	191	85.418	13.506	25.976	1.00112.95
ATOM	28553	CG	GLN	P	191	84.899	12.397	26.871	1.00113.35
ATOM	28554	CD	GLN	P	191	84.335	12.915	28.177	1.00113.75
ATOM	28555	OE1	GLN	P	191	85.077	13.372	29.051	1.00113.79
ATOM	28556	NE2	GLN	P	191	83.015	12.853	28.316	1.00113.15
ATOM	28557	N	ASN	P	192	88.644	13.335	25.442	1.00112.27
ATOM	28558	CA	ASN	P	192	89.929	12.899	25.977	1.00111.20
ATOM	28559	C	ASN	P	192	89.757	12.323	27.369	1.00110.98
ATOM	28560	O	ASN	P	192	89.117	12.937	28.223	1.00111.72
ATOM	28561	CB	ASN	P	192	90.914	14.059	26.036	1.00111.17
ATOM	28562	CG	ASN	P	192	91.594	14.305	24.716	1.00110.94
ATOM	28563	OD1	ASN	P	192	92.211	13.404	24.149	1.00108.34
ATOM	28564	ND2	ASN	P	192	91.492	15.531	24.216	1.00113.38
ATOM	28565	N	LEU	P	193	90.323	11.144	27.599	1.00109.87
ATOM	28566	CA	LEU	P	193	90.215	10.509	28.906	1.00109.27
ATOM	28567	C	LEU	P	193	91.544	10.394	29.647	1.00108.92
ATOM	28568	O	LEU	P	193	92.615	10.387	29.034	1.00109.50
ATOM	28569	CB	LEU	P	193	89.577	9.121	28.781	1.00108.29
ATOM	28570	CG	LEU	P	193	88.050	9.049	28.840	1.00105.91
ATOM	28571	CD1	LEU	P	193	87.621	7.594	28.836	1.00107.38
ATOM	28572	CD2	LEU	P	193	87.543	9.729	30.099	1.00104.79
ATOM	28573	N	GLY	P	194	91.450	10.307	30.974	1.00107.70
ATOM	28574	CA	GLY	P	194	92.619	10.185	31.824	1.00105.47
ATOM	28575	C	GLY	P	194	92.222	9.502	33.118	1.00104.77
ATOM	28576	O	GLY	P	194	91.070	9.607	33.541	1.00103.15
ATOM	28577	N	TYR	P	195	93.168	8.806	33.747	1.00105.28
ATOM	28578	CA	TYR	P	195	92.897	8.095	34.997	1.00105.51
ATOM	28579	C	TYR	P	195	94.134	7.931	35.885	1.00105.30
ATOM	28580	O	TYR	P	195	95.265	7.995	35.411	1.00103.87

ATOM	28581	CB	TYR	P	195	92.327	6.711	34.696	1.00106.11
ATOM	28582	CG	TYR	P	195	93.323	5.796	34.022	1.00107.27
ATOM	28583	CD1	TYR	P	195	93.691	5.992	32.689	1.00106.91
ATOM	28584	CD2	TYR	P	195	93.931	4.758	34.729	1.00107.52
ATOM	28585	CE1	TYR	P	195	94.642	5.176	32.076	1.00106.56
ATOM	28586	CE2	TYR	P	195	94.884	3.939	34.127	1.00108.38
ATOM	28587	CZ	TYR	P	195	95.235	4.153	32.800	1.00107.56
ATOM	28588	OH	TYR	P	195	96.182	3.347	32.203	1.00107.90
ATOM	28589	N	TYR	P	196	93.896	7.709	37.176	1.00106.64
ATOM	28590	CA	TYR	P	196	94.960	7.512	38.158	1.00108.68
ATOM	28591	C	TYR	P	196	94.404	6.679	39.309	1.00110.58
ATOM	28592	O	TYR	P	196	93.222	6.345	39.310	1.00110.85
ATOM	28593	CB	TYR	P	196	95.485	8.866	38.672	1.00108.57
ATOM	28594	CG	TYR	P	196	94.547	9.669	39.566	1.00108.16
ATOM	28595	CD1	TYR	P	196	94.277	9.265	40.879	1.00107.92
ATOM	28596	CD2	TYR	P	196	93.964	10.860	39.113	1.00107.18
ATOM	28597	CE1	TYR	P	196	93.453	10.026	41.722	1.00107.60
ATOM	28598	CE2	TYR	P	196	93.138	11.629	39.946	1.00106.66
ATOM	28599	CZ	TYR	P	196	92.889	11.205	41.249	1.00107.58
ATOM	28600	OH	TYR	P	196	92.085	11.954	42.080	1.00105.05
ATOM	28601	N	LEU	P	197	95.243	6.348	40.289	1.00113.43
ATOM	28602	CA	LEU	P	197	94.797	5.540	41.430	1.00116.28
ATOM	28603	C	LEU	P	197	94.948	6.271	42.768	1.00117.52
ATOM	28604	O	LEU	P	197	95.326	7.439	42.800	1.00117.94
ATOM	28605	CB	LEU	P	197	95.586	4.226	41.479	1.00116.32
ATOM	28606	CG	LEU	P	197	95.910	3.541	40.147	1.00117.05
ATOM	28607	CD1	LEU	P	197	96.548	2.192	40.444	1.00116.83
ATOM	28608	CD2	LEU	P	197	94.653	3.365	39.297	1.00116.30
ATOM	28609	N	SER	P	198	94.646	5.578	43.866	1.00119.57
ATOM	28610	CA	SER	P	198	94.759	6.149	45.214	1.00122.18
ATOM	28611	C	SER	P	198	94.125	5.256	46.283	1.00124.11
ATOM	28612	O	SER	P	198	92.962	4.862	46.165	1.00124.16
ATOM	28613	CB	SER	P	198	94.106	7.534	45.278	1.00121.39
ATOM	28614	OG	SER	P	198	92.704	7.443	45.116	1.00122.20
ATOM	28615	N	GLY	P	199	94.892	4.949	47.328	1.00126.56
ATOM	28616	CA	GLY	P	199	94.392	4.109	48.408	1.00128.87
ATOM	28617	C	GLY	P	199	95.304	4.052	49.626	1.00130.04
ATOM	28618	O	GLY	P	199	95.650	5.085	50.201	1.00129.43
ATOM	28619	N	THR	P	200	95.688	2.839	50.018	1.00131.83
ATOM	28620	CA	THR	P	200	96.565	2.621	51.170	1.00133.82
ATOM	28621	C	THR	P	200	97.861	1.932	50.736	1.00135.25
ATOM	28622	O	THR	P	200	98.068	0.746	51.011	1.00135.47
ATOM	28623	CB	THR	P	200	95.875	1.737	52.245	1.00133.78
ATOM	28624	OG1	THR	P	200	94.678	2.379	52.699	1.00134.80
ATOM	28625	CG2	THR	P	200	96.795	1.510	53.435	1.00131.61
ATOM	28626	N	THR	P	201	98.729	2.682	50.058	1.00136.38
ATOM	28627	CA	THR	P	201	100.007	2.154	49.581	1.00137.32
ATOM	28628	C	THR	P	201	100.913	1.798	50.761	1.00137.04
ATOM	28629	O	THR	P	201	100.676	2.242	51.884	1.00137.13
ATOM	28630	CB	THR	P	201	100.730	3.179	48.676	1.00138.21
ATOM	28631	OG1	THR	P	201	101.880	2.567	48.074	1.00137.53
ATOM	28632	CG2	THR	P	201	101.164	4.399	49.489	1.00138.62
ATOM	28633	N	ALA	P	202	101.954	1.007	50.505	1.00136.47
ATOM	28634	CA	ALA	P	202	102.865	0.586	51.565	1.00136.08
ATOM	28635	C	ALA	P	202	104.307	1.071	51.406	1.00135.79
ATOM	28636	O	ALA	P	202	104.869	1.677	52.319	1.00134.98
ATOM	28637	CB	ALA	P	202	102.840	-0.934	51.685	1.00134.95
ATOM	28638	N	ASP	P	203	104.904	0.802	50.250	1.00135.66
ATOM	28639	CA	ASP	P	203	106.285	1.200	50.003	1.00135.73
ATOM	28640	C	ASP	P	203	106.488	2.710	50.015	1.00135.70
ATOM	28641	O	ASP	P	203	105.561	3.474	50.282	1.00135.27
ATOM	28642	CB	ASP	P	203	106.778	0.630	48.663	1.00136.64

ATOM	28643	CG	ASP	P	203	106.030	1.199	47.464	1.00136.73
ATOM	28644	OD1	ASP	P	203	105.034	1.927	47.672	1.00137.60
ATOM	28645	OD2	ASP	P	203	106.438	0.914	46.314	1.00135.03
ATOM	28646	N	ALA	P	204	107.718	3.123	49.722	1.00135.98
ATOM	28647	CA	ALA	P	204	108.086	4.534	49.678	1.00135.99
ATOM	28648	C	ALA	P	204	107.877	5.091	48.274	1.00136.03
ATOM	28649	O	ALA	P	204	107.699	6.297	48.097	1.00136.44
ATOM	28650	CB	ALA	P	204	109.539	4.704	50.095	1.00136.63
ATOM	28651	N	GLY	P	205	107.911	4.209	47.278	1.00135.87
ATOM	28652	CA	GLY	P	205	107.706	4.629	45.904	1.00135.79
ATOM	28653	C	GLY	P	205	106.222	4.694	45.600	1.00136.01
ATOM	28654	O	GLY	P	205	105.814	4.795	44.443	1.00136.12
ATOM	28655	N	ASN	P	206	105.419	4.637	46.659	1.00136.06
ATOM	28656	CA	ASN	P	206	103.963	4.679	46.568	1.00135.50
ATOM	28657	C	ASN	P	206	103.445	3.901	45.361	1.00134.83
ATOM	28658	O	ASN	P	206	103.001	4.485	44.373	1.00134.67
ATOM	28659	CB	ASN	P	206	103.481	6.134	46.515	1.00136.03
ATOM	28660	CG	ASN	P	206	101.978	6.258	46.702	1.00137.59
ATOM	28661	OD1	ASN	P	206	101.451	7.356	46.888	1.00138.35
ATOM	28662	ND2	ASN	P	206	101.281	5.131	46.648	1.00137.94
ATOM	28663	N	SER	P	207	103.508	2.575	45.456	1.00134.05
ATOM	28664	CA	SER	P	207	103.050	1.698	44.385	1.00132.65
ATOM	28665	C	SER	P	207	102.657	0.323	44.915	1.00132.09
ATOM	28666	O	SER	P	207	102.564	-0.632	44.150	1.00131.50
ATOM	28667	CB	SER	P	207	104.147	1.533	43.330	1.00131.43
ATOM	28668	OG	SER	P	207	104.503	2.779	42.764	1.00129.49
ATOM	28669	N	ILE	P	208	102.424	0.217	46.219	1.00131.75
ATOM	28670	CA	ILE	P	208	102.049	-1.068	46.803	1.00132.20
ATOM	28671	C	ILE	P	208	100.941	-0.949	47.843	1.00132.74
ATOM	28672	O	ILE	P	208	101.207	-0.844	49.039	1.00132.35
ATOM	28673	CB	ILE	P	208	103.275	-1.771	47.451	1.00131.96
ATOM	28674	CG1	ILE	P	208	104.322	-2.085	46.379	1.00130.34
ATOM	28675	CG2	ILE	P	208	102.840	-3.060	48.147	1.00131.57
ATOM	28676	CD1	ILE	P	208	105.562	-2.774	46.907	1.00128.92
ATOM	28677	N	PHE	P	209	99.695	-0.973	47.373	1.00133.67
ATOM	28678	CA	PHE	P	209	98.538	-0.879	48.256	1.00134.41
ATOM	28679	C	PHE	P	209	98.337	-2.255	48.890	1.00135.12
ATOM	28680	O	PHE	P	209	97.733	-3.145	48.291	1.00135.43
ATOM	28681	CB	PHE	P	209	97.286	-0.473	47.464	1.00134.07
ATOM	28682	CG	PHE	P	209	97.539	0.575	46.403	1.00133.40
ATOM	28683	CD1	PHE	P	209	97.999	0.212	45.138	1.00132.80
ATOM	28684	CD2	PHE	P	209	97.308	1.922	46.663	1.00132.77
ATOM	28685	CE1	PHE	P	209	98.223	1.172	44.146	1.00131.86
ATOM	28686	CE2	PHE	P	209	97.530	2.887	45.680	1.00132.90
ATOM	28687	CZ	PHE	P	209	97.988	2.507	44.417	1.00132.66
ATOM	28688	N	THR	P	210	98.856	-2.414	50.103	1.00136.01
ATOM	28689	CA	THR	P	210	98.786	-3.671	50.846	1.00137.09
ATOM	28690	C	THR	P	210	97.425	-4.362	50.934	1.00138.67
ATOM	28691	O	THR	P	210	96.433	-3.913	50.357	1.00139.14
ATOM	28692	CB	THR	P	210	99.308	-3.478	52.278	1.00135.69
ATOM	28693	OG1	THR	P	210	99.513	-2.082	52.519	1.00135.04
ATOM	28694	CG2	THR	P	210	100.610	-4.227	52.477	1.00133.88
ATOM	28695	N	ASN	P	211	97.411	-5.468	51.675	1.00140.19
ATOM	28696	CA	ASN	P	211	96.222	-6.291	51.889	1.00141.82
ATOM	28697	C	ASN	P	211	95.161	-5.563	52.721	1.00142.56
ATOM	28698	O	ASN	P	211	95.363	-5.305	53.908	1.00142.78
ATOM	28699	CB	ASN	P	211	96.640	-7.592	52.589	1.00142.43
ATOM	28700	CG	ASN	P	211	95.484	-8.555	52.793	1.00143.05
ATOM	28701	OD1	ASN	P	211	95.650	-9.614	53.400	1.00143.26
ATOM	28702	ND2	ASN	P	211	94.312	-8.198	52.283	1.00143.72
ATOM	28703	N	THR	P	212	94.028	-5.247	52.095	1.00143.01
ATOM	28704	CA	THR	P	212	92.941	-4.548	52.773	1.00143.08

ATOM	28705	C	THR	P	212	91.979	-5.532	53.433	1.00144.45
ATOM	28706	O	THR	P	212	90.791	-5.245	53.585	1.00144.64
ATOM	28707	CB	THR	P	212	92.149	-3.674	51.787	1.00141.93
ATOM	28708	OG1	THR	P	212	93.060	-3.005	50.910	1.00141.33
ATOM	28709	CG2	THR	P	212	91.333	-2.629	52.538	1.00141.02
ATOM	28710	N	ALA	P	213	92.497	-6.691	53.827	1.00145.99
ATOM	28711	CA	ALA	P	213	91.679	-7.713	54.470	1.00147.85
ATOM	28712	C	ALA	P	213	92.021	-7.844	55.949	1.00149.21
ATOM	28713	O	ALA	P	213	93.171	-8.116	56.307	1.00149.36
ATOM	28714	CB	ALA	P	213	91.873	-9.053	53.775	1.00147.39
ATOM	28715	N	SER	P	214	91.018	-7.646	56.801	1.00150.59
ATOM	28716	CA	SER	P	214	91.191	-7.755	58.248	1.00151.71
ATOM	28717	C	SER	P	214	91.216	-9.236	58.627	1.00152.66
ATOM	28718	O	SER	P	214	90.752	-9.627	59.701	1.00152.53
ATOM	28719	CB	SER	P	214	90.038	-7.049	58.972	1.00151.39
ATOM	28720	OG	SER	P	214	90.167	-7.157	60.379	1.00150.04
ATOM	28721	N	PHE	P	215	91.769	-10.047	57.727	1.00153.42
ATOM	28722	CA	PHE	P	215	91.871	-11.493	57.907	1.00153.90
ATOM	28723	C	PHE	P	215	93.099	-11.903	58.718	1.00154.86
ATOM	28724	O	PHE	P	215	93.181	-13.030	59.212	1.00154.92
ATOM	28725	CB	PHE	P	215	91.896	-12.172	56.533	1.00152.32
ATOM	28726	CG	PHE	P	215	92.020	-13.665	56.592	1.00150.80
ATOM	28727	CD1	PHE	P	215	90.890	-14.460	56.746	1.00149.71
ATOM	28728	CD2	PHE	P	215	93.264	-14.278	56.493	1.00149.46
ATOM	28729	CE1	PHE	P	215	90.994	-15.844	56.795	1.00148.70
ATOM	28730	CE2	PHE	P	215	93.378	-15.662	56.540	1.00148.78
ATOM	28731	CZ	PHE	P	215	92.240	-16.446	56.692	1.00148.19
ATOM	28732	N	SER	P	216	94.047	-10.979	58.854	1.00156.14
ATOM	28733	CA	SER	P	216	95.276	-11.230	59.600	1.00156.79
ATOM	28734	C	SER	P	216	96.078	-12.392	58.996	1.00157.26
ATOM	28735	O	SER	P	216	96.568	-13.259	59.719	1.00158.04
ATOM	28736	CB	SER	P	216	94.934	-11.524	61.068	1.00156.24
ATOM	28737	OG	SER	P	216	96.096	-11.765	61.841	1.00156.10
ATOM	28738	N	PRO	P	217	96.228	-12.418	57.657	1.00157.20
ATOM	28739	CA	PRO	P	217	96.974	-13.488	56.986	1.00156.67
ATOM	28740	C	PRO	P	217	98.491	-13.392	57.171	1.00156.18
ATOM	28741	O	PRO	P	217	98.980	-13.247	58.289	1.00156.25
ATOM	28742	CB	PRO	P	217	96.554	-13.326	55.532	1.00157.01
ATOM	28743	CG	PRO	P	217	96.434	-11.844	55.406	1.00157.80
ATOM	28744	CD	PRO	P	217	95.685	-11.468	56.667	1.00157.59
ATOM	28745	N	ALA	P	218	99.227	-13.473	56.068	1.00155.75
ATOM	28746	CA	ALA	P	218	100.686	-13.404	56.103	1.00155.16
ATOM	28747	C	ALA	P	218	101.194	-11.972	56.262	1.00154.92
ATOM	28748	O	ALA	P	218	100.467	-11.087	56.721	1.00154.73
ATOM	28749	CB	ALA	P	218	101.263	-14.019	54.833	1.00154.75
ATOM	28750	N	GLN	P	219	102.452	-11.759	55.878	1.00154.35
ATOM	28751	CA	GLN	P	219	103.090	-10.446	55.957	1.00153.28
ATOM	28752	C	GLN	P	219	103.797	-10.112	54.643	1.00152.78
ATOM	28753	O	GLN	P	219	103.957	-10.977	53.777	1.00152.88
ATOM	28754	CB	GLN	P	219	104.108	-10.416	57.105	1.00153.06
ATOM	28755	CG	GLN	P	219	103.497	-10.441	58.500	1.00151.32
ATOM	28756	CD	GLN	P	219	104.544	-10.399	59.599	1.00150.03
ATOM	28757	OE1	GLN	P	219	104.218	-10.234	60.773	1.00148.60
ATOM	28758	NE2	GLN	P	219	105.809	-10.553	59.221	1.00149.71
ATOM	28759	N	GLY	P	220	104.218	-8.857	54.501	1.00151.64
ATOM	28760	CA	GLY	P	220	104.902	-8.433	53.291	1.00149.83
ATOM	28761	C	GLY	P	220	104.147	-8.798	52.027	1.00148.85
ATOM	28762	O	GLY	P	220	104.687	-9.480	51.153	1.00147.88
ATOM	28763	N	VAL	P	221	102.896	-8.345	51.934	1.00147.99
ATOM	28764	CA	VAL	P	221	102.050	-8.619	50.773	1.00146.94
ATOM	28765	C	VAL	P	221	101.164	-7.431	50.410	1.00146.81
ATOM	28766	O	VAL	P	221	100.532	-6.824	51.276	1.00146.85

ATOM	28767	CB	VAL	P	221	101.131	-9.840	51.015	1.00146.29
ATOM	28768	CG1	VAL	P	221	100.228	-10.062	49.805	1.00144.72
ATOM	28769	CG2	VAL	P	221	101.971	-11.078	51.285	1.00146.06
ATOM	28770	N	GLY	P	222	101.121	-7.116	49.118	1.00146.55
ATOM	28771	CA	GLY	P	222	100.313	-6.011	48.632	1.00146.20
ATOM	28772	C	GLY	P	222	100.072	-6.118	47.135	1.00146.12
ATOM	28773	O	GLY	P	222	100.291	-7.178	46.542	1.00146.34
ATOM	28774	N	VAL	P	223	99.623	-5.027	46.519	1.00145.47
ATOM	28775	CA	VAL	P	223	99.357	-5.011	45.081	1.00144.43
ATOM	28776	C	VAL	P	223	100.121	-3.869	44.413	1.00143.59
ATOM	28777	O	VAL	P	223	100.294	-2.804	45.004	1.00143.70
ATOM	28778	CB	VAL	P	223	97.843	-4.833	44.788	1.00144.70
ATOM	28779	CG1	VAL	P	223	97.580	-4.988	43.297	1.00144.03
ATOM	28780	CG2	VAL	P	223	97.029	-5.846	45.582	1.00143.72
ATOM	28781	N	GLN	P	224	100.576	-4.093	43.183	1.00142.51
ATOM	28782	CA	GLN	P	224	101.319	-3.079	42.439	1.00141.43
ATOM	28783	C	GLN	P	224	101.006	-3.204	40.947	1.00140.87
ATOM	28784	O	GLN	P	224	101.841	-3.645	40.155	1.00140.89
ATOM	28785	CB	GLN	P	224	102.824	-3.244	42.699	1.00141.85
ATOM	28786	CG	GLN	P	224	103.706	-2.118	42.160	1.00142.19
ATOM	28787	CD	GLN	P	224	105.064	-2.042	42.855	1.00141.72
ATOM	28788	OE1	GLN	P	224	105.874	-1.160	42.568	1.00140.89
ATOM	28789	NE2	GLN	P	224	105.313	-2.967	43.774	1.00141.52
ATOM	28790	N	LEU	P	225	99.788	-2.808	40.586	1.00140.18
ATOM	28791	CA	LEU	P	225	99.285	-2.864	39.213	1.00139.51
ATOM	28792	C	LEU	P	225	100.321	-2.578	38.131	1.00139.29
ATOM	28793	O	LEU	P	225	101.342	-1.939	38.384	1.00139.85
ATOM	28794	CB	LEU	P	225	98.118	-1.884	39.048	1.00139.01
ATOM	28795	CG	LEU	P	225	96.959	-1.992	40.042	1.00138.58
ATOM	28796	CD1	LEU	P	225	95.899	-0.960	39.697	1.00137.59
ATOM	28797	CD2	LEU	P	225	96.372	-3.392	40.007	1.00137.82
ATOM	28798	N	THR	P	226	100.043	-3.060	36.923	1.00138.73
ATOM	28799	CA	THR	P	226	100.931	-2.848	35.784	1.00138.88
ATOM	28800	C	THR	P	226	100.133	-2.711	34.493	1.00139.05
ATOM	28801	O	THR	P	226	99.063	-3.304	34.350	1.00139.51
ATOM	28802	CB	THR	P	226	101.946	-4.004	35.612	1.00138.89
ATOM	28803	OG1	THR	P	226	102.791	-3.733	34.485	1.00136.75
ATOM	28804	CG2	THR	P	226	101.228	-5.319	35.384	1.00138.89
ATOM	28805	N	ARG	P	227	100.665	-1.929	33.558	1.00138.82
ATOM	28806	CA	ARG	P	227	100.010	-1.693	32.276	1.00138.64
ATOM	28807	C	ARG	P	227	100.788	-2.270	31.094	1.00138.41
ATOM	28808	O	ARG	P	227	101.614	-1.587	30.487	1.00138.11
ATOM	28809	CB	ARG	P	227	99.771	-0.185	32.081	1.00138.84
ATOM	28810	CG	ARG	P	227	100.862	0.736	32.651	1.00139.24
ATOM	28811	CD	ARG	P	227	100.525	2.224	32.431	1.00139.57
ATOM	28812	NE	ARG	P	227	101.545	3.141	32.952	1.00139.88
ATOM	28813	CZ	ARG	P	227	101.649	3.520	34.226	1.00139.71
ATOM	28814	NH1	ARG	P	227	100.793	3.067	35.129	1.00140.13
ATOM	28815	NH2	ARG	P	227	102.613	4.352	34.600	1.00138.13
ATOM	28816	N	ASN	P	228	100.508	-3.535	30.778	1.00138.03
ATOM	28817	CA	ASN	P	228	101.160	-4.246	29.676	1.00137.68
ATOM	28818	C	ASN	P	228	102.655	-4.417	29.949	1.00137.43
ATOM	28819	O	ASN	P	228	103.302	-5.323	29.411	1.00137.09
ATOM	28820	CB	ASN	P	228	100.955	-3.488	28.356	1.00137.92
ATOM	28821	CG	ASN	P	228	101.388	-4.294	27.135	1.00138.07
ATOM	28822	OD1	ASN	P	228	101.325	-3.809	26.003	1.00137.18
ATOM	28823	ND2	ASN	P	228	101.824	-5.530	27.361	1.00138.81
ATOM	28824	N	GLY	P	229	103.190	-3.543	30.794	1.00136.69
ATOM	28825	CA	GLY	P	229	104.598	-3.596	31.134	1.00135.59
ATOM	28826	C	GLY	P	229	105.064	-2.299	31.764	1.00134.76
ATOM	28827	O	GLY	P	229	106.066	-1.719	31.344	1.00134.93
ATOM	28828	N	THR	P	230	104.328	-1.843	32.773	1.00133.78

ATOM	28829	CA	THR	P	230	104.651	-0.607	33.481	1.00132.63
ATOM	28830	C	THR	P	230	103.830	-0.569	34.763	1.00132.50
ATOM	28831	O	THR	P	230	102.668	-0.963	34.755	1.00133.40
ATOM	28832	CB	THR	P	230	104.291	0.633	32.638	1.00131.79
ATOM	28833	OG1	THR	P	230	104.985	0.586	31.384	1.00131.41
ATOM	28834	CG2	THR	P	230	104.671	1.903	33.379	1.00131.09
ATOM	28835	N	ILE	P	231	104.420	-0.099	35.860	1.00131.92
ATOM	28836	CA	ILE	P	231	103.690	-0.040	37.125	1.00131.52
ATOM	28837	C	ILE	P	231	102.910	1.262	37.340	1.00131.12
ATOM	28838	O	ILE	P	231	103.390	2.361	37.041	1.00130.66
ATOM	28839	CB	ILE	P	231	104.631	-0.295	38.336	1.00131.22
ATOM	28840	CG1	ILE	P	231	105.032	-1.774	38.366	1.00130.81
ATOM	28841	CG2	ILE	P	231	103.936	0.082	39.640	1.00130.69
ATOM	28842	CD1	ILE	P	231	105.844	-2.176	39.577	1.00131.35
ATOM	28843	N	ILE	P	232	101.695	1.111	37.861	1.00130.49
ATOM	28844	CA	ILE	P	232	100.799	2.231	38.125	1.00129.91
ATOM	28845	C	ILE	P	232	100.815	2.595	39.617	1.00128.87
ATOM	28846	O	ILE	P	232	100.172	1.926	40.437	1.00130.19
ATOM	28847	CB	ILE	P	232	99.331	1.881	37.729	1.00130.54
ATOM	28848	CG1	ILE	P	232	99.312	0.982	36.488	1.00130.39
ATOM	28849	CG2	ILE	P	232	98.545	3.159	37.445	1.00130.57
ATOM	28850	CD1	ILE	P	232	97.926	0.498	36.101	1.00129.92
ATOM	28851	N	PRO	P	233	101.564	3.649	39.991	1.00126.21
ATOM	28852	CA	PRO	P	233	101.639	4.081	41.393	1.00123.05
ATOM	28853	C	PRO	P	233	100.447	4.963	41.802	1.00120.62
ATOM	28854	O	PRO	P	233	99.779	5.556	40.953	1.00120.93
ATOM	28855	CB	PRO	P	233	102.964	4.835	41.439	1.00122.96
ATOM	28856	CG	PRO	P	233	103.032	5.455	40.079	1.00123.45
ATOM	28857	CD	PRO	P	233	102.589	4.327	39.175	1.00124.51
ATOM	28858	N	ALA	P	234	100.181	5.047	43.102	1.00117.12
ATOM	28859	CA	ALA	P	234	99.071	5.858	43.595	1.00113.98
ATOM	28860	C	ALA	P	234	99.245	7.336	43.253	1.00111.33
ATOM	28861	O	ALA	P	234	100.276	7.931	43.558	1.00112.37
ATOM	28862	CB	ALA	P	234	98.930	5.697	45.109	1.00113.54
ATOM	28863	N	ASN	P	235	98.228	7.917	42.622	1.00107.43
ATOM	28864	CA	ASN	P	235	98.233	9.330	42.252	1.00103.86
ATOM	28865	C	ASN	P	235	99.057	9.614	41.000	1.00104.05
ATOM	28866	O	ASN	P	235	99.680	10.669	40.893	1.00105.13
ATOM	28867	CB	ASN	P	235	98.760	10.181	43.417	1.00 98.86
ATOM	28868	CG	ASN	P	235	98.023	9.919	44.723	1.00 94.59
ATOM	28869	OD1	ASN	P	235	98.464	10.336	45.789	1.00 90.26
ATOM	28870	ND2	ASN	P	235	96.891	9.238	44.642	1.00 93.45
ATOM	28871	N	ASN	P	236	99.059	8.685	40.050	1.00104.14
ATOM	28872	CA	ASN	P	236	99.822	8.883	38.821	1.00104.54
ATOM	28873	C	ASN	P	236	98.942	8.779	37.584	1.00104.02
ATOM	28874	O	ASN	P	236	98.904	7.747	36.918	1.00103.79
ATOM	28875	CB	ASN	P	236	100.958	7.865	38.725	1.00105.90
ATOM	28876	CG	ASN	P	236	101.836	8.095	37.513	1.00107.33
ATOM	28877	OD1	ASN	P	236	102.475	9.139	37.391	1.00107.09
ATOM	28878	ND2	ASN	P	236	101.867	7.124	36.604	1.00109.31
ATOM	28879	N	THR	P	237	98.247	9.865	37.278	1.00103.99
ATOM	28880	CA	THR	P	237	97.351	9.917	36.133	1.00104.90
ATOM	28881	C	THR	P	237	98.029	9.582	34.808	1.00104.57
ATOM	28882	O	THR	P	237	99.139	10.034	34.535	1.00104.39
ATOM	28883	CB	THR	P	237	96.718	11.303	36.016	1.00105.83
ATOM	28884	OG1	THR	P	237	96.198	11.691	37.292	1.00108.52
ATOM	28885	CG2	THR	P	237	95.588	11.287	35.000	1.00107.66
ATOM	28886	N	VAL	P	238	97.349	8.789	33.987	1.00104.79
ATOM	28887	CA	VAL	P	238	97.877	8.399	32.685	1.00104.87
ATOM	28888	C	VAL	P	238	96.886	8.836	31.615	1.00104.99
ATOM	28889	O	VAL	P	238	95.684	8.916	31.878	1.00104.37
ATOM	28890	CB	VAL	P	238	98.074	6.862	32.578	1.00104.77

ATOM	28891	CG1	VAL	P	238	98.926	6.531	31.349	1.00103.24
ATOM	28892	CG2	VAL	P	238	98.717	6.320	33.851	1.00103.83
ATOM	28893	N	SER	P	239	97.390	9.113	30.413	1.00105.25
ATOM	28894	CA	SER	P	239	96.543	9.553	29.302	1.00105.65
ATOM	28895	C	SER	P	239	95.897	8.398	28.539	1.00106.18
ATOM	28896	O	SER	P	239	96.327	7.248	28.642	1.00108.08
ATOM	28897	CB	SER	P	239	97.353	10.410	28.322	1.00104.29
ATOM	28898	OG	SER	P	239	96.537	10.873	27.259	1.00102.75
ATOM	28899	N	LEU	P	240	94.859	8.716	27.773	1.00105.39
ATOM	28900	CA	LEU	P	240	94.152	7.716	26.986	1.00104.67
ATOM	28901	C	LEU	P	240	93.911	8.252	25.591	1.00104.36
ATOM	28902	O	LEU	P	240	93.514	7.514	24.693	1.00104.05
ATOM	28903	CB	LEU	P	240	92.814	7.368	27.640	1.00103.85
ATOM	28904	CG	LEU	P	240	92.895	6.569	28.942	1.00103.17
ATOM	28905	CD1	LEU	P	240	91.507	6.412	29.532	1.00104.67
ATOM	28906	CD2	LEU	P	240	93.513	5.208	28.666	1.00102.38
ATOM	28907	N	GLY	P	241	94.167	9.544	25.416	1.00104.49
ATOM	28908	CA	GLY	P	241	93.959	10.166	24.123	1.00105.37
ATOM	28909	C	GLY	P	241	92.475	10.311	23.848	1.00105.89
ATOM	28910	O	GLY	P	241	91.743	10.908	24.645	1.00106.34
ATOM	28911	N	ALA	P	242	92.028	9.757	22.724	1.00105.69
ATOM	28912	CA	ALA	P	242	90.621	9.818	22.343	1.00104.30
ATOM	28913	C	ALA	P	242	89.934	8.481	22.589	1.00103.36
ATOM	28914	O	ALA	P	242	90.370	7.446	22.076	1.00101.47
ATOM	28915	CB	ALA	P	242	90.492	10.209	20.873	1.00104.59
ATOM	28916	N	VAL	P	243	88.863	8.522	23.384	1.00103.31
ATOM	28917	CA	VAL	P	243	88.068	7.340	23.718	1.00102.86
ATOM	28918	C	VAL	P	243	86.625	7.545	23.240	1.00104.64
ATOM	28919	O	VAL	P	243	85.839	8.248	23.889	1.00104.74
ATOM	28920	CB	VAL	P	243	88.041	7.092	25.235	1.00100.03
ATOM	28921	CG1	VAL	P	243	87.444	5.732	25.524	1.00 97.13
ATOM	28922	CG2	VAL	P	243	89.437	7.202	25.804	1.00 99.39
ATOM	28923	N	GLY	P	244	86.290	6.928	22.106	1.00105.41
ATOM	28924	CA	GLY	P	244	84.958	7.052	21.539	1.00106.41
ATOM	28925	C	GLY	P	244	83.925	6.154	22.189	1.00107.53
ATOM	28926	O	GLY	P	244	83.577	6.334	23.354	1.00106.90
ATOM	28927	N	THR	P	245	83.421	5.189	21.429	1.00108.81
ATOM	28928	CA	THR	P	245	82.427	4.257	21.941	1.00110.65
ATOM	28929	C	THR	P	245	82.960	2.836	21.839	1.00111.76
ATOM	28930	O	THR	P	245	82.455	1.925	22.500	1.00112.34
ATOM	28931	CB	THR	P	245	81.117	4.359	21.154	1.00111.13
ATOM	28932	OG1	THR	P	245	81.399	4.283	19.750	1.00112.97
ATOM	28933	CG2	THR	P	245	80.418	5.673	21.460	1.00110.99
ATOM	28934	N	SER	P	246	83.984	2.663	21.002	1.00112.53
ATOM	28935	CA	SER	P	246	84.631	1.369	20.800	1.00112.82
ATOM	28936	C	SER	P	246	85.509	1.064	22.012	1.00114.00
ATOM	28937	O	SER	P	246	86.717	1.327	22.013	1.00113.93
ATOM	28938	CB	SER	P	246	85.486	1.397	19.531	1.00111.73
ATOM	28939	OG	SER	P	246	86.519	2.358	19.634	1.00110.67
ATOM	28940	N	ALA	P	247	84.872	0.510	23.040	1.00114.81
ATOM	28941	CA	ALA	P	247	85.509	0.158	24.305	1.00115.88
ATOM	28942	C	ALA	P	247	87.027	0.005	24.300	1.00116.68
ATOM	28943	O	ALA	P	247	87.610	-0.618	23.411	1.00115.82
ATOM	28944	CB	ALA	P	247	84.870	-1.110	24.862	1.00115.16
ATOM	28945	N	VAL	P	248	87.652	0.588	25.318	1.00118.33
ATOM	28946	CA	VAL	P	248	89.094	0.523	25.504	1.00119.09
ATOM	28947	C	VAL	P	248	89.337	-0.048	26.904	1.00119.88
ATOM	28948	O	VAL	P	248	88.805	0.454	27.897	1.00117.08
ATOM	28949	CB	VAL	P	248	89.751	1.927	25.386	1.00118.89
ATOM	28950	CG1	VAL	P	248	91.258	1.818	25.568	1.00118.41
ATOM	28951	CG2	VAL	P	248	89.435	2.542	24.027	1.00117.96
ATOM	28952	N	SER	P	249	90.126	-1.117	26.965	1.00122.06

ATOM	28953	CA	SER	P	249	90.449	-1.776	28.224	1.00124.67
ATOM	28954	C	SER	P	249	91.679	-1.137	28.860	1.00126.87
ATOM	28955	O	SER	P	249	92.656	-0.846	28.167	1.00128.24
ATOM	28956	CB	SER	P	249	90.714	-3.265	27.985	1.00123.98
ATOM	28957	OG	SER	P	249	91.040	-3.930	29.194	1.00123.70
ATOM	28958	N	LEU	P	250	91.634	-0.923	30.174	1.00128.11
ATOM	28959	CA	LEU	P	250	92.758	-0.316	30.884	1.00128.43
ATOM	28960	C	LEU	P	250	93.996	-1.210	30.916	1.00129.92
ATOM	28961	O	LEU	P	250	95.095	-0.746	31.223	1.00129.49
ATOM	28962	CB	LEU	P	250	92.356	0.047	32.318	1.00126.54
ATOM	28963	CG	LEU	P	250	91.469	1.279	32.518	1.00124.47
ATOM	28964	CD1	LEU	P	250	91.234	1.499	34.005	1.00123.18
ATOM	28965	CD2	LEU	P	250	92.138	2.500	31.908	1.00122.74
ATOM	28966	N	GLY	P	251	93.815	-2.489	30.594	1.00131.92
ATOM	28967	CA	GLY	P	251	94.930	-3.419	30.597	1.00133.51
ATOM	28968	C	GLY	P	251	95.703	-3.302	31.893	1.00134.39
ATOM	28969	O	GLY	P	251	96.680	-2.558	31.983	1.00133.80
ATOM	28970	N	LEU	P	252	95.265	-4.043	32.902	1.00135.69
ATOM	28971	CA	LEU	P	252	95.910	-3.995	34.203	1.00137.49
ATOM	28972	C	LEU	P	252	96.208	-5.392	34.744	1.00139.27
ATOM	28973	O	LEU	P	252	95.752	-6.395	34.189	1.00139.70
ATOM	28974	CB	LEU	P	252	95.004	-3.246	35.178	1.00137.00
ATOM	28975	CG	LEU	P	252	94.328	-1.994	34.613	1.00137.06
ATOM	28976	CD1	LEU	P	252	93.423	-1.380	35.671	1.00137.42
ATOM	28977	CD2	LEU	P	252	95.382	-0.994	34.161	1.00137.96
ATOM	28978	N	THR	P	253	96.980	-5.447	35.828	1.00140.92
ATOM	28979	CA	THR	P	253	97.334	-6.714	36.467	1.00142.09
ATOM	28980	C	THR	P	253	97.422	-6.543	37.989	1.00142.77
ATOM	28981	O	THR	P	253	97.960	-5.548	38.481	1.00142.49
ATOM	28982	CB	THR	P	253	98.692	-7.253	35.948	1.00142.02
ATOM	28983	OG1	THR	P	253	98.671	-7.317	34.517	1.00142.02
ATOM	28984	CG2	THR	P	253	98.958	-8.649	36.497	1.00141.78
ATOM	28985	N	ALA	P	254	96.884	-7.513	38.726	1.00143.53
ATOM	28986	CA	ALA	P	254	96.905	-7.483	40.187	1.00144.57
ATOM	28987	C	ALA	P	254	98.143	-8.218	40.687	1.00145.30
ATOM	28988	O	ALA	P	254	98.050	-9.338	41.191	1.00145.73
ATOM	28989	CB	ALA	P	254	95.644	-8.137	40.748	1.00144.13
ATOM	28990	N	ASN	P	255	99.297	-7.574	40.545	1.00145.92
ATOM	28991	CA	ASN	P	255	100.572	-8.153	40.954	1.00146.50
ATOM	28992	C	ASN	P	255	100.807	-8.093	42.458	1.00146.87
ATOM	28993	O	ASN	P	255	100.529	-7.077	43.097	1.00146.63
ATOM	28994	CB	ASN	P	255	101.721	-7.426	40.254	1.00146.84
ATOM	28995	CG	ASN	P	255	101.551	-7.377	38.751	1.00147.48
ATOM	28996	OD1	ASN	P	255	101.561	-8.408	38.078	1.00148.55
ATOM	28997	ND2	ASN	P	255	101.390	-6.171	38.215	1.00147.08
ATOM	28998	N	TYR	P	256	101.317	-9.188	43.017	1.00147.54
ATOM	28999	CA	TYR	P	256	101.628	-9.244	44.441	1.00147.91
ATOM	29000	C	TYR	P	256	102.966	-8.532	44.605	1.00147.62
ATOM	29001	O	TYR	P	256	103.823	-8.595	43.720	1.00147.65
ATOM	29002	CB	TYR	P	256	101.776	-10.693	44.933	1.00149.01
ATOM	29003	CG	TYR	P	256	100.482	-11.464	45.155	1.00150.29
ATOM	29004	CD1	TYR	P	256	99.683	-11.864	44.080	1.00150.64
ATOM	29005	CD2	TYR	P	256	100.079	-11.829	46.444	1.00150.44
ATOM	29006	CE1	TYR	P	256	98.517	-12.614	44.284	1.00149.82
ATOM	29007	CE2	TYR	P	256	98.917	-12.576	46.656	1.00149.68
ATOM	29008	CZ	TYR	P	256	98.145	-12.964	45.573	1.00149.48
ATOM	29009	OH	TYR	P	256	97.007	-13.708	45.778	1.00149.07
ATOM	29010	N	ALA	P	257	103.140	-7.849	45.728	1.00146.93
ATOM	29011	CA	ALA	P	257	104.378	-7.133	46.005	1.00146.26
ATOM	29012	C	ALA	P	257	104.660	-7.254	47.493	1.00146.18
ATOM	29013	O	ALA	P	257	103.732	-7.275	48.303	1.00146.26
ATOM	29014	CB	ALA	P	257	104.240	-5.669	45.607	1.00145.88

ATOM	29015	N	ARG	P	258	105.936	-7.338	47.858	1.00145.85
ATOM	29016	CA	ARG	P	258	106.299	-7.471	49.264	1.00145.06
ATOM	29017	C	ARG	P	258	106.506	-6.141	49.973	1.00145.41
ATOM	29018	O	ARG	P	258	107.255	-5.278	49.512	1.00145.32
ATOM	29019	CB	ARG	P	258	107.548	-8.348	49.413	1.00143.07
ATOM	29020	CG	ARG	P	258	107.274	-9.828	49.168	1.00140.36
ATOM	29021	CD	ARG	P	258	108.518	-10.692	49.336	1.00136.66
ATOM	29022	NE	ARG	P	258	108.207	-12.115	49.217	1.00131.91
ATOM	29023	CZ	ARG	P	258	109.077	-13.092	49.444	1.00129.01
ATOM	29024	NH1	ARG	P	258	110.320	-12.805	49.804	1.00128.15
ATOM	29025	NH2	ARG	P	258	108.701	-14.355	49.318	1.00126.46
ATOM	29026	N	THR	P	259	105.815	-5.991	51.099	1.00146.07
ATOM	29027	CA	THR	P	259	105.895	-4.790	51.918	1.00146.55
ATOM	29028	C	THR	P	259	106.834	-5.061	53.094	1.00147.13
ATOM	29029	O	THR	P	259	106.947	-4.260	54.026	1.00147.02
ATOM	29030	CB	THR	P	259	104.497	-4.391	52.441	1.00146.03
ATOM	29031	OG1	THR	P	259	103.940	-5.467	53.206	1.00144.93
ATOM	29032	CG2	THR	P	259	103.572	-4.081	51.275	1.00145.51
ATOM	29033	N	GLY	P	260	107.510	-6.205	53.025	1.00147.67
ATOM	29034	CA	GLY	P	260	108.445	-6.596	54.062	1.00147.89
ATOM	29035	C	GLY	P	260	109.269	-7.797	53.641	1.00148.16
ATOM	29036	O	GLY	P	260	110.356	-8.034	54.166	1.00147.84
ATOM	29037	N	GLY	P	261	108.751	-8.551	52.678	1.00148.67
ATOM	29038	CA	GLY	P	261	109.451	-9.730	52.208	1.00149.28
ATOM	29039	C	GLY	P	261	109.189	-10.893	53.142	1.00149.96
ATOM	29040	O	GLY	P	261	110.080	-11.702	53.398	1.00150.20
ATOM	29041	N	GLN	P	262	107.958	-10.974	53.644	1.00150.55
ATOM	29042	CA	GLN	P	262	107.552	-12.028	54.577	1.00150.69
ATOM	29043	C	GLN	P	262	106.305	-12.772	54.081	1.00150.77
ATOM	29044	O	GLN	P	262	105.465	-13.189	54.882	1.00150.70
ATOM	29045	CB	GLN	P	262	107.265	-11.408	55.955	1.00150.21
ATOM	29046	CG	GLN	P	262	107.013	-12.405	57.083	1.00148.68
ATOM	29047	CD	GLN	P	262	108.288	-12.852	57.764	1.00147.99
ATOM	29048	OE1	GLN	P	262	109.220	-13.317	57.114	1.00148.30
ATOM	29049	NE2	GLN	P	262	108.334	-12.715	59.081	1.00147.18
ATOM	29050	N	VAL	P	263	106.187	-12.937	52.766	1.00150.71
ATOM	29051	CA	VAL	P	263	105.036	-13.628	52.184	1.00150.87
ATOM	29052	C	VAL	P	263	104.830	-15.014	52.792	1.00151.18
ATOM	29053	O	VAL	P	263	105.762	-15.817	52.856	1.00151.18
ATOM	29054	CB	VAL	P	263	105.192	-13.784	50.658	1.00150.27
ATOM	29055	CG1	VAL	P	263	103.971	-14.484	50.077	1.00149.37
ATOM	29056	CG2	VAL	P	263	105.378	-12.424	50.019	1.00149.86
ATOM	29057	N	THR	P	264	103.606	-15.291	53.233	1.00151.06
ATOM	29058	CA	THR	P	264	103.294	-16.582	53.836	1.00151.10
ATOM	29059	C	THR	P	264	101.904	-17.049	53.408	1.00151.30
ATOM	29060	O	THR	P	264	101.445	-16.726	52.312	1.00150.93
ATOM	29061	CB	THR	P	264	103.352	-16.501	55.379	1.00151.17
ATOM	29062	OG1	THR	P	264	104.467	-15.691	55.774	1.00150.59
ATOM	29063	CG2	THR	P	264	103.520	-17.895	55.980	1.00150.96
ATOM	29064	N	ALA	P	265	101.238	-17.804	54.278	1.00151.92
ATOM	29065	CA	ALA	P	265	99.904	-18.325	53.994	1.00153.10
ATOM	29066	C	ALA	P	265	98.802	-17.549	54.718	1.00153.91
ATOM	29067	O	ALA	P	265	98.924	-17.234	55.904	1.00154.33
ATOM	29068	CB	ALA	P	265	99.837	-19.801	54.373	1.00152.77
ATOM	29069	N	GLY	P	266	97.723	-17.253	53.996	1.00154.56
ATOM	29070	CA	GLY	P	266	96.611	-16.518	54.575	1.00155.10
ATOM	29071	C	GLY	P	266	95.812	-15.754	53.534	1.00155.75
ATOM	29072	O	GLY	P	266	96.377	-14.989	52.750	1.00155.36
ATOM	29073	N	ASN	P	267	94.496	-15.958	53.529	1.00156.71
ATOM	29074	CA	ASN	P	267	93.606	-15.291	52.578	1.00157.39
ATOM	29075	C	ASN	P	267	93.888	-13.789	52.487	1.00157.42
ATOM	29076	O	ASN	P	267	94.057	-13.113	53.505	1.00157.83

ATOM	29077	CB	ASN	P	267	92.138	-15.529	52.968	1.00157.73
ATOM	29078	CG	ASN	P	267	91.704	-16.977	52.770	1.00157.85
ATOM	29079	OD1	ASN	P	267	91.670	-17.478	51.645	1.00157.73
ATOM	29080	ND2	ASN	P	267	91.371	-17.653	53.865	1.00157.74
ATOM	29081	N	VAL	P	268	93.932	-13.279	51.258	1.00156.73
ATOM	29082	CA	VAL	P	268	94.209	-11.867	51.012	1.00155.83
ATOM	29083	C	VAL	P	268	93.023	-11.184	50.317	1.00155.50
ATOM	29084	O	VAL	P	268	92.091	-11.853	49.869	1.00155.14
ATOM	29085	CB	VAL	P	268	95.483	-11.717	50.136	1.00155.44
ATOM	29086	CG1	VAL	P	268	95.956	-10.273	50.129	1.00155.76
ATOM	29087	CG2	VAL	P	268	96.582	-12.633	50.655	1.00154.26
ATOM	29088	N	GLN	P	269	93.066	-9.854	50.243	1.00155.19
ATOM	29089	CA	GLN	P	269	92.019	-9.045	49.608	1.00154.64
ATOM	29090	C	GLN	P	269	92.581	-7.659	49.268	1.00154.34
ATOM	29091	O	GLN	P	269	93.683	-7.315	49.696	1.00154.50
ATOM	29092	CB	GLN	P	269	90.824	-8.892	50.553	1.00154.60
ATOM	29093	CG	GLN	P	269	90.088	-10.186	50.848	1.00155.02
ATOM	29094	CD	GLN	P	269	89.291	-10.125	52.135	1.00155.33
ATOM	29095	OE1	GLN	P	269	88.395	-9.295	52.288	1.00155.46
ATOM	29096	NE2	GLN	P	269	89.619	-11.007	53.073	1.00155.30
ATOM	29097	N	SER	P	270	91.832	-6.867	48.504	1.00153.76
ATOM	29098	CA	SER	P	270	92.286	-5.525	48.130	1.00152.99
ATOM	29099	C	SER	P	270	91.167	-4.670	47.532	1.00152.62
ATOM	29100	O	SER	P	270	90.197	-5.192	46.980	1.00151.97
ATOM	29101	CB	SER	P	270	93.451	-5.619	47.137	1.00152.84
ATOM	29102	OG	SER	P	270	93.999	-4.341	46.859	1.00151.81
ATOM	29103	N	ILE	P	271	91.319	-3.351	47.645	1.00152.42
ATOM	29104	CA	ILE	P	271	90.332	-2.399	47.132	1.00151.24
ATOM	29105	C	ILE	P	271	90.968	-1.127	46.543	1.00150.83
ATOM	29106	O	ILE	P	271	91.195	-0.143	47.255	1.00150.72
ATOM	29107	CB	ILE	P	271	89.334	-1.991	48.248	1.00150.78
ATOM	29108	CG1	ILE	P	271	90.098	-1.503	49.486	1.00149.78
ATOM	29109	CG2	ILE	P	271	88.440	-3.173	48.602	1.00149.75
ATOM	29110	CD1	ILE	P	271	89.213	-0.985	50.604	1.00149.38
ATOM	29111	N	ILE	P	272	91.246	-1.156	45.239	1.00149.79
ATOM	29112	CA	ILE	P	272	91.850	-0.020	44.537	1.00148.24
ATOM	29113	C	ILE	P	272	90.758	0.838	43.904	1.00147.09
ATOM	29114	O	ILE	P	272	89.708	0.327	43.518	1.00147.19
ATOM	29115	CB	ILE	P	272	92.800	-0.486	43.404	1.00148.24
ATOM	29116	CG1	ILE	P	272	93.784	-1.537	43.930	1.00148.82
ATOM	29117	CG2	ILE	P	272	93.543	0.710	42.825	1.00146.99
ATOM	29118	CD1	ILE	P	272	94.655	-1.068	45.078	1.00149.19
ATOM	29119	N	GLY	P	273	91.010	2.139	43.794	1.00145.67
ATOM	29120	CA	GLY	P	273	90.029	3.034	43.202	1.00143.77
ATOM	29121	C	GLY	P	273	90.562	3.760	41.980	1.00142.37
ATOM	29122	O	GLY	P	273	91.329	4.714	42.105	1.00142.54
ATOM	29123	N	VAL	P	274	90.151	3.316	40.795	1.00140.76
ATOM	29124	CA	VAL	P	274	90.606	3.927	39.548	1.00138.93
ATOM	29125	C	VAL	P	274	89.863	5.224	39.224	1.00137.51
ATOM	29126	O	VAL	P	274	88.961	5.243	38.382	1.00137.10
ATOM	29127	CB	VAL	P	274	90.446	2.953	38.353	1.00138.90
ATOM	29128	CG1	VAL	P	274	91.098	3.539	37.113	1.00138.48
ATOM	29129	CG2	VAL	P	274	91.072	1.612	38.686	1.00138.85
ATOM	29130	N	THR	P	275	90.255	6.307	39.893	1.00135.64
ATOM	29131	CA	THR	P	275	89.642	7.616	39.683	1.00133.15
ATOM	29132	C	THR	P	275	89.930	8.121	38.275	1.00131.65
ATOM	29133	O	THR	P	275	91.065	8.061	37.806	1.00130.60
ATOM	29134	CB	THR	P	275	90.183	8.660	40.682	1.00132.59
ATOM	29135	OG1	THR	P	275	89.950	8.211	42.022	1.00132.21
ATOM	29136	CG2	THR	P	275	89.492	10.000	40.477	1.00131.03
ATOM	29137	N	PHE	P	276	88.893	8.616	37.609	1.00130.34
ATOM	29138	CA	PHE	P	276	89.020	9.140	36.254	1.00129.00

ATOM	29139	C	PHE	P	276	88.851	10.649	36.246	1.00127.47
ATOM	29140	O	PHE	P	276	88.029	11.197	36.978	1.00127.94
ATOM	29141	CB	PHE	P	276	87.968	8.522	35.329	1.00129.61
ATOM	29142	CG	PHE	P	276	88.379	7.215	34.724	1.00130.52
ATOM	29143	CD1	PHE	P	276	88.678	6.121	35.529	1.00131.97
ATOM	29144	CD2	PHE	P	276	88.456	7.075	33.341	1.00131.14
ATOM	29145	CE1	PHE	P	276	89.049	4.903	34.965	1.00133.09
ATOM	29146	CE2	PHE	P	276	88.825	5.862	32.764	1.00131.98
ATOM	29147	CZ	PHE	P	276	89.122	4.774	33.577	1.00133.34
ATOM	29148	N	VAL	P	277	89.635	11.316	35.411	1.00125.32
ATOM	29149	CA	VAL	P	277	89.565	12.761	35.290	1.00123.26
ATOM	29150	C	VAL	P	277	89.180	13.057	33.841	1.00122.71
ATOM	29151	O	VAL	P	277	89.865	12.627	32.911	1.00121.82
ATOM	29152	CB	VAL	P	277	90.931	13.414	35.619	1.00122.55
ATOM	29153	CG1	VAL	P	277	90.785	14.922	35.676	1.00122.37
ATOM	29154	CG2	VAL	P	277	91.464	12.881	36.942	1.00120.86
ATOM	29155	N	TYR	P	278	88.074	13.772	33.650	1.00121.86
ATOM	29156	CA	TYR	P	278	87.612	14.104	32.306	1.00120.99
ATOM	29157	C	TYR	P	278	88.063	15.501	31.882	1.00120.47
ATOM	29158	O	TYR	P	278	88.501	16.302	32.710	1.00120.24
ATOM	29159	CB	TYR	P	278	86.080	14.027	32.219	1.00120.21
ATOM	29160	CG	TYR	P	278	85.474	12.686	32.581	1.00119.24
ATOM	29161	CD1	TYR	P	278	85.386	12.272	33.912	1.00119.77
ATOM	29162	CD2	TYR	P	278	84.966	11.840	31.594	1.00118.34
ATOM	29163	CE1	TYR	P	278	84.801	11.047	34.253	1.00119.59
ATOM	29164	CE2	TYR	P	278	84.382	10.613	31.923	1.00118.69
ATOM	29165	CZ	TYR	P	278	84.302	10.224	33.253	1.00119.56
ATOM	29166	OH	TYR	P	278	83.719	9.020	33.586	1.00120.08
ATOM	29167	N	GLN	P	279	87.950	15.780	30.584	1.00119.77
ATOM	29168	CA	GLN	P	279	88.329	17.076	30.025	1.00118.99
ATOM	29169	C	GLN	P	279	87.190	17.664	29.195	1.00119.13
ATOM	29170	O	GLN	P	279	86.847	18.844	29.419	1.00119.03
ATOM	29171	CB	GLN	P	279	89.569	16.947	29.139	1.00117.97
ATOM	29172	CG	GLN	P	279	90.064	18.284	28.604	1.00116.84
ATOM	29173	CD	GLN	P	279	91.069	18.139	27.482	1.00117.61
ATOM	29174	OE1	GLN	P	279	91.601	19.129	26.978	1.00117.85
ATOM	29175	NE2	GLN	P	279	91.330	16.902	27.077	1.00117.92
ATOM	29176	OXT	GLN	P	279	86.668	16.943	28.317	1.00119.39
ATOM	29177	C1	MMA		500	85.846	-12.884	3.271	1.00 61.35
ATOM	29178	C2	MMA		500	84.921	-11.601	3.113	1.00 62.11
ATOM	29179	C3	MMA		500	85.629	-10.448	3.759	1.00 60.76
ATOM	29180	C4	MMA		500	85.914	-10.752	5.220	1.00 56.63
ATOM	29181	C5	MMA		500	86.808	-11.978	5.317	1.00 51.49
ATOM	29182	C6	MMA		500	87.058	-12.293	6.787	1.00 45.54
ATOM	29183	C7	MMA		500	87.270	-13.633	1.549	1.00 56.80
ATOM	29184	O1	MMA		500	87.096	-12.658	2.541	1.00 60.01
ATOM	29185	O2	MMA		500	83.674	-11.747	3.762	1.00 58.08
ATOM	29186	O3	MMA		500	84.822	-9.306	3.658	1.00 63.88
ATOM	29187	O4	MMA		500	86.563	-9.625	5.760	1.00 64.20
ATOM	29188	O5	MMA		500	86.132	-13.097	4.713	1.00 56.98
ATOM	29189	O6	MMA		500	85.809	-12.530	7.409	1.00 36.78
ATOM	29190	C1	MMA		601	56.242	52.488	163.077	1.00 66.90
ATOM	29191	C2	MMA		601	57.508	53.406	162.784	1.00 67.85
ATOM	29192	C3	MMA		601	58.729	52.672	163.263	1.00 65.92
ATOM	29193	C4	MMA		601	58.601	52.355	164.752	1.00 60.91
ATOM	29194	C5	MMA		601	57.384	51.466	164.984	1.00 56.24
ATOM	29195	C6	MMA		601	57.242	51.167	166.482	1.00 47.89
ATOM	29196	C7	MMA		601	55.357	51.211	161.312	1.00 65.73
ATOM	29197	O1	MMA		601	56.357	51.260	162.296	1.00 65.20
ATOM	29198	O2	MMA		601	57.457	54.638	163.482	1.00 68.24
ATOM	29199	O3	MMA		601	59.868	53.471	163.040	1.00 65.36
ATOM	29200	O4	MMA		601	59.774	51.690	165.139	1.00 67.43

ATOM	29201	O5	MMA	601	56.200	52.159	164.527	1.00	62.18
ATOM	29202	O6	MMA	601	56.872	52.353	167.147	1.00	39.29
ATOM	29203	C1	MMA	502	82.057	85.994	56.433	1.00	56.62
ATOM	29204	C2	MMA	502	80.831	85.002	56.247	1.00	56.18
ATOM	29205	C3	MMA	502	79.621	85.633	56.869	1.00	54.87
ATOM	29206	C4	MMA	502	79.874	85.913	58.343	1.00	51.62
ATOM	29207	C5	MMA	502	81.039	86.889	58.474	1.00	47.08
ATOM	29208	C6	MMA	502	81.314	87.163	59.953	1.00	40.63
ATOM	29209	C7	MMA	502	82.619	87.315	54.576	1.00	54.58
ATOM	29210	O1	MMA	502	81.778	87.218	55.694	1.00	57.46
ATOM	29211	O2	MMA	502	81.030	83.762	56.896	1.00	55.58
ATOM	29212	O3	MMA	502	78.534	84.767	56.735	1.00	58.22
ATOM	29213	O4	MMA	502	78.696	86.472	58.868	1.00	58.78
ATOM	29214	O5	MMA	502	82.219	86.302	57.881	1.00	52.68
ATOM	29215	O6	MMA	502	81.637	85.942	60.593	1.00	34.92
ATOM	29216	C1	MMA	603	52.440	150.981	109.862	1.00	58.12
ATOM	29217	C2	MMA	603	53.310	149.659	109.691	1.00	57.36
ATOM	29218	C3	MMA	603	52.560	148.536	110.342	1.00	55.23
ATOM	29219	C4	MMA	603	52.298	148.845	111.809	1.00	51.57
ATOM	29220	C5	MMA	603	51.453	150.109	111.921	1.00	46.33
ATOM	29221	C6	MMA	603	51.210	150.431	113.399	1.00	40.47
ATOM	29222	C7	MMA	603	51.021	151.783	108.156	1.00	57.74
ATOM	29223	O1	MMA	603	51.178	150.797	109.142	1.00	59.94
ATOM	29224	O2	MMA	603	54.575	149.745	110.320	1.00	56.52
ATOM	29225	O3	MMA	603	53.313	147.359	110.233	1.00	57.71
ATOM	29226	O4	MMA	603	51.612	147.742	112.351	1.00	58.85
ATOM	29227	O5	MMA	603	52.164	151.208	111.312	1.00	51.38
ATOM	29228	O6	MMA	603	52.441	150.698	114.032	1.00	32.43
ATOM	29229	C1	MMA	605	29.888	171.627	164.687	1.00	118.07
ATOM	29230	C2	MMA	605	28.586	170.891	164.197	1.00	118.25
ATOM	29231	C3	MMA	605	27.412	171.677	164.680	1.00	117.69
ATOM	29232	C4	MMA	605	27.446	171.803	166.190	1.00	117.22
ATOM	29233	C5	MMA	605	28.724	172.518	166.617	1.00	117.12
ATOM	29234	C6	MMA	605	28.771	172.610	168.161	1.00	118.02
ATOM	29235	C7	MMA	605	31.150	173.401	163.833	1.00	116.64
ATOM	29236	O1	MMA	605	29.861	172.946	164.081	1.00	118.16
ATOM	29237	O2	MMA	605	28.484	169.581	164.702	1.00	120.04
ATOM	29238	O3	MMA	605	26.238	171.033	164.282	1.00	117.63
ATOM	29239	O4	MMA	605	26.304	172.543	166.574	1.00	119.36
ATOM	29240	O5	MMA	605	29.857	171.755	166.156	1.00	117.24
ATOM	29241	O6	MMA	605	28.619	173.958	168.578	1.00	121.00
ATOM	29242	C1	MMA	504	102.553	108.384	111.429	1.00	109.35
ATOM	29243	C2	MMA	504	101.975	109.730	110.864	1.00	110.26
ATOM	29244	C3	MMA	504	102.951	110.814	111.180	1.00	109.62
ATOM	29245	C4	MMA	504	103.155	110.907	112.691	1.00	108.59
ATOM	29246	C5	MMA	504	103.721	109.594	113.198	1.00	108.19
ATOM	29247	C6	MMA	504	103.911	109.673	114.733	1.00	108.27
ATOM	29248	C7	MMA	504	104.059	106.782	110.632	1.00	102.34
ATOM	29249	O1	MMA	504	103.812	108.139	110.734	1.00	107.51
ATOM	29250	O2	MMA	504	100.740	110.059	111.460	1.00	112.09
ATOM	29251	O3	MMA	504	102.451	112.020	110.690	1.00	108.67
ATOM	29252	O4	MMA	504	104.064	111.956	112.948	1.00	111.48
ATOM	29253	O5	MMA	504	102.790	108.529	112.883	1.00	108.50
ATOM	29254	O6	MMA	504	102.646	109.741	115.375	1.00	109.64
ATOM	29255	C1	MMA	506	108.538	-33.479	58.085	1.00	97.08
ATOM	29256	C2	MMA	506	109.863	-32.794	57.598	1.00	97.55
ATOM	29257	C3	MMA	506	111.001	-33.696	57.954	1.00	97.30
ATOM	29258	C4	MMA	506	111.031	-33.947	59.465	1.00	97.26
ATOM	29259	C5	MMA	506	109.732	-34.613	59.896	1.00	95.99
ATOM	29260	C6	MMA	506	109.748	-34.851	61.432	1.00	95.92
ATOM	29261	C7	MMA	506	107.097	-35.099	57.191	1.00	93.08
ATOM	29262	O1	MMA	506	108.428	-34.737	57.361	1.00	97.16

ATOM	29263	O2	MMA	506	110.078	-31.549	58.220	1.00	98.35
ATOM	29264	O3	MMA	506	112.197	-33.097	57.540	1.00	96.08
ATOM	29265	O4	MMA	506	112.136	-34.789	59.748	1.00	100.47
ATOM	29266	O5	MMA	506	108.625	-33.739	59.542	1.00	96.75
ATOM	29267	O6	MMA	506	109.483	-33.637	62.134	1.00	96.53
ATOM	29268	C1	MMA	607	35.447	29.723	4.588	1.00	116.70
ATOM	29269	C2	MMA	607	36.326	28.500	4.128	1.00	116.39
ATOM	29270	C3	MMA	607	35.660	27.251	4.602	1.00	115.43
ATOM	29271	C4	MMA	607	35.491	27.274	6.125	1.00	114.87
ATOM	29272	C5	MMA	607	34.621	28.461	6.521	1.00	113.63
ATOM	29273	C6	MMA	607	34.456	28.499	8.064	1.00	113.04
ATOM	29274	C7	MMA	607	33.628	30.836	3.601	1.00	116.83
ATOM	29275	O1	MMA	607	34.155	29.585	3.934	1.00	117.89
ATOM	29276	O2	MMA	607	37.619	28.533	4.680	1.00	117.88
ATOM	29277	O3	MMA	607	36.440	26.157	4.220	1.00	113.76
ATOM	29278	O4	MMA	607	34.877	26.060	6.510	1.00	116.94
ATOM	29279	O5	MMA	607	35.268	29.682	6.062	1.00	115.05
ATOM	29280	O6	MMA	607	35.602	29.070	8.683	1.00	112.26
ATOM	29281	O	HOH	1	104.124	130.937	156.026	1.00	1.00
ATOM	29282	O	HOH	2	46.610	20.840	110.767	1.00	20.13
ATOM	29283	O	HOH	3	76.608	104.202	209.163	1.00	5.81
ATOM	29284	O	HOH	4	61.616	34.163	102.634	1.00	1.00
ATOM	29285	O	HOH	5	34.121	7.167	49.443	1.00	7.46
ATOM	29286	O	HOH	6	72.222	82.982	202.532	1.00	14.87
ATOM	29287	O	HOH	7	21.154	22.619	57.153	1.00	17.81
ATOM	29288	O	HOH	8	50.129	14.206	87.351	1.00	8.63
ATOM	29289	O	HOH	9	74.969	156.159	127.649	1.00	15.39
ATOM	29290	O	HOH	10	51.625	74.517	180.760	1.00	30.32
ATOM	29291	O	HOH	11	118.122	115.809	163.810	1.00	20.30
ATOM	29292	O	HOH	12	63.375	-18.137	20.958	1.00	19.78
ATOM	29293	O	HOH	13	87.412	63.316	74.265	1.00	21.49
ATOM	29294	O	HOH	14	91.554	117.479	217.246	1.00	16.29
ATOM	29295	O	HOH	15	66.243	55.169	95.741	1.00	23.48
ATOM	29296	O	HOH	16	55.565	3.194	42.515	1.00	24.10
ATOM	29297	O	HOH	17	80.117	81.127	56.790	1.00	21.11
ATOM	29298	O	HOH	18	94.134	122.979	218.274	1.00	35.31
ATOM	29299	O	HOH	19	50.070	-14.309	19.213	1.00	41.04
ATOM	29300	O	HOH	20	82.790	135.259	149.150	1.00	18.69
ATOM	29301	O	HOH	21	107.904	119.244	139.376	1.00	30.28
ATOM	29302	O	HOH	22	29.963	-1.669	52.792	1.00	7.31
ATOM	29303	O	HOH	23	63.119	66.163	182.133	1.00	34.63
ATOM	29304	O	HOH	24	123.296	113.325	164.924	1.00	33.21
ATOM	29305	O	HOH	25	64.153	94.092	194.604	1.00	1.00
ATOM	29306	O	HOH	26	63.846	87.001	172.670	1.00	45.20
ATOM	29307	O	HOH	27	17.547	6.290	36.381	1.00	11.14
ATOM	29308	O	HOH	28	123.775	118.500	140.180	1.00	35.43
ATOM	29309	O	HOH	29	14.418	19.179	33.908	1.00	45.54
ATOM	29310	O	HOH	30	74.724	51.930	66.193	1.00	30.90
ATOM	29311	O	HOH	31	70.737	30.306	106.430	1.00	6.35
ATOM	29312	O	HOH	32	94.077	143.908	141.275	1.00	11.56
ATOM	29313	O	HOH	33	49.813	30.206	86.069	1.00	31.00
ATOM	29314	O	HOH	34	44.750	-5.082	34.924	1.00	16.77
ATOM	29315	O	HOH	35	74.343	44.440	87.997	1.00	8.68
ATOM	29316	O	HOH	36	89.742	25.822	73.584	1.00	18.78
ATOM	29317	O	HOH	37	58.893	23.170	105.854	1.00	10.19
ATOM	29318	O	HOH	38	44.291	14.960	111.742	1.00	26.70
ATOM	29319	O	HOH	39	68.013	118.464	138.315	1.00	41.18
ATOM	29320	O	HOH	40	108.375	139.537	159.569	1.00	10.50
ATOM	29321	O	HOH	41	88.675	107.884	192.544	1.00	30.45
ATOM	29322	O	HOH	42	115.433	128.013	159.209	1.00	29.38
ATOM	29323	O	HOH	43	30.379	19.524	32.694	1.00	36.24
ATOM	29324	O	HOH	44	103.648	115.665	165.252	1.00	37.61

ATOM	29325	O	HOH	45	58.579	65.115	184.255	1.00	24.90
ATOM	29326	O	HOH	46	73.434	10.772	82.393	1.00	28.51
ATOM	29327	O	HOH	47	66.633	144.366	128.769	1.00	35.27
ATOM	29328	O	HOH	48	16.152	20.612	43.868	1.00	22.03
ATOM	29329	O	HOH	49	25.768	171.872	180.513	1.00	60.21
ATOM	29330	O	HOH	50	15.154	24.621	58.336	1.00	35.44
ATOM	29331	O	HOH	51	68.325	33.008	79.117	1.00	28.49
ATOM	29332	O	HOH	52	52.805	-5.347	12.590	1.00	53.96
ATOM	29333	O	HOH	53	35.523	-8.824	54.309	1.00	51.49
ATOM	29334	O	HOH	54	69.492	23.112	78.133	1.00	61.21
ATOM	29335	O	HOH	55	66.927	102.599	194.055	1.00	31.17
ATOM	29336	O	HOH	56	85.569	149.684	150.341	1.00	33.81
ATOM	29337	O	HOH	57	67.503	118.229	120.179	1.00	34.96
ATOM	29338	O	HOH	58	75.825	72.120	75.440	1.00	48.80
ATOM	29339	O	HOH	59	63.326	61.246	75.210	1.00	30.79
ATOM	29340	O	HOH	60	42.404	-0.422	18.719	1.00	48.47
ATOM	29341	O	HOH	61	20.075	26.495	40.540	1.00	19.20
ATOM	29342	O	HOH	62	82.082	105.390	208.969	1.00	22.26
ATOM	29343	O	HOH	63	115.727	-32.451	75.891	1.00	68.05
ATOM	29344	O	HOH	64	32.057	24.479	32.091	1.00	34.05
ATOM	29345	O	HOH	65	112.443	134.327	149.836	1.00	32.13
ATOM	29346	O	HOH	66	15.733	13.703	43.978	1.00	7.65
ATOM	29347	O	HOH	67	116.468	-8.153	80.230	1.00	32.02
ATOM	29348	O	HOH	68	68.997	-24.709	11.438	1.00	32.79
ATOM	29349	O	HOH	69	80.994	-11.433	3.232	1.00	34.22
ATOM	29350	O	HOH	70	56.830	36.336	8.822	1.00	18.55
ATOM	29351	O	HOH	71	93.051	15.770	29.277	1.00	40.41
ATOM	29352	O	HOH	72	89.363	-9.517	55.594	1.00	59.73
ATOM	29353	O	HOH	73	49.237	155.128	122.028	1.00	28.18
ATOM	29354	O	HOH	74	54.735	144.972	110.015	1.00	44.67
ATOM	29355	O	HOH	75	113.145	-33.474	74.336	1.00	42.60
ATOM	29356	O	HOH	76	121.204	11.316	97.845	1.00	51.13
ATOM	29357	O	HOH	77	79.479	31.979	97.275	1.00	21.09
ATOM	29358	O	HOH	78	129.446	146.036	126.813	1.00	62.25
ATOM	29359	O	HOH	79	102.774	111.931	127.937	1.00	21.06
ATOM	29360	O	HOH	80	20.101	137.201	191.772	1.00	26.37
ATOM	29361	O	HOH	81	35.198	25.280	20.360	1.00	37.65
ATOM	29362	O	HOH	82	85.869	115.440	202.589	1.00	10.08
ATOM	29363	O	HOH	83	0.295	124.323	178.446	1.00	47.47
ATOM	29364	O	HOH	84	98.213	-1.285	42.885	1.00	49.95
ATOM	29365	O	HOH	85	103.139	38.866	85.162	1.00	46.93
ATOM	29366	O	HOH	86	77.913	2.349	17.292	1.00	30.83
ATOM	29367	O	HOH	87	86.822	96.978	195.359	1.00	45.89
ATOM	29368	O	HOH	88	113.964	128.483	146.628	1.00	14.93
ATOM	29369	O	HOH	89	78.115	34.964	107.501	1.00	57.98
ATOM	29370	O	HOH	90	42.216	-1.827	29.680	1.00	21.18
ATOM	29371	O	HOH	91	66.264	54.197	154.030	1.00	24.60
ATOM	29372	O	HOH	92	54.104	5.989	25.477	1.00	55.11
ATOM	29373	O	HOH	93	37.035	26.402	91.202	1.00	21.75
ATOM	29374	O	HOH	94	83.109	0.243	18.607	1.00	28.36
ATOM	29375	O	HOH	95	71.987	-8.718	0.184	1.00	31.74
ATOM	29376	O	HOH	96	77.413	-18.479	9.224	1.00	44.50
ATOM	29377	O	HOH	97	59.369	104.666	187.601	1.00	50.61
ATOM	29378	O	HOH	98	0.374	113.793	184.747	1.00	37.28
ATOM	29379	O	HOH	99	86.076	78.810	52.228	1.00	29.65
ATOM	29380	O	HOH	100	120.673	131.890	143.025	1.00	25.82
ATOM	29381	O	HOH	101	67.456	140.953	128.774	1.00	28.22
ATOM	29382	O	HOH	102	61.924	74.635	162.243	1.00	22.23
ATOM	29383	O	HOH	103	92.878	114.499	129.052	1.00	68.97
ATOM	29384	O	HOH	104	61.012	6.439	21.468	1.00	40.94
ATOM	29385	O	HOH	105	60.618	22.075	84.517	1.00	35.70
ATOM	29386	O	HOH	106	117.525	43.256	77.928	1.00	39.22

ATOM	29387	O	HOH	107	74.915	-7.718	-1.808	1.00	25.73
ATOM	29388	O	HOH	108	49.159	-1.950	11.738	1.00	19.15
ATOM	29389	O	HOH	109	84.096	141.393	112.567	1.00	25.83
ATOM	29390	O	HOH	110	47.423	-20.263	34.204	1.00	31.28
ATOM	29391	O	HOH	111	96.079	140.075	136.515	1.00	6.47
ATOM	29392	O	HOH	112	93.331	-0.106	24.480	1.00	45.85
ATOM	29393	O	HOH	113	80.717	-4.768	-2.952	1.00	33.70
ATOM	29394	O	HOH	114	97.508	114.328	195.405	1.00	27.25
ATOM	29395	O	HOH	115	62.618	17.668	89.910	1.00	31.00
ATOM	29396	O	HOH	116	-9.923	117.539	215.353	1.00	47.90
ATOM	29397	O	HOH	117	79.812	72.780	78.102	1.00	42.51
ATOM	29398	O	HOH	118	82.750	154.246	128.233	1.00	29.63
ATOM	29399	O	HOH	119	-4.389	132.991	193.004	1.00	35.52
ATOM	29400	O	HOH	120	79.526	115.060	212.601	1.00	21.59
ATOM	29401	O	HOH	121	73.077	-10.550	24.359	1.00	29.95
ATOM	29402	O	HOH	122	26.412	8.469	47.806	1.00	12.69
ATOM	29403	O	HOH	123	68.995	130.850	130.269	1.00	36.60
ATOM	29404	O	HOH	124	29.201	23.833	57.707	1.00	23.41
ATOM	29405	O	HOH	125	93.420	35.934	85.143	1.00	35.91
ATOM	29406	O	HOH	126	74.499	148.839	128.479	1.00	20.25
ATOM	29407	O	HOH	127	56.680	103.693	126.632	1.00	51.38
ATOM	29408	O	HOH	128	72.298	36.779	103.502	1.00	32.05
ATOM	29409	O	HOH	129	96.135	139.329	157.383	1.00	14.74
ATOM	29410	O	HOH	130	68.319	95.792	210.445	1.00	11.12
ATOM	29411	O	HOH	131	76.922	116.250	133.216	1.00	33.08
ATOM	29412	O	HOH	132	89.956	46.486	88.816	1.00	42.17
ATOM	29413	O	HOH	133	0.645	125.412	203.015	1.00	50.31
ATOM	29414	O	HOH	134	89.364	139.745	118.559	1.00	28.78
ATOM	29415	O	HOH	135	79.091	146.589	129.899	1.00	53.75
ATOM	29416	O	HOH	136	77.734	111.990	207.528	1.00	14.61
ATOM	29417	O	HOH	137	66.977	75.792	53.091	1.00	43.60
ATOM	29418	O	HOH	138	151.949	44.055	102.311	1.00	34.57
ATOM	29419	O	HOH	139	113.063	-4.521	59.166	1.00	47.20
ATOM	29420	O	HOH	140	80.940	39.968	77.191	1.00	40.21
ATOM	29421	O	HOH	141	82.116	19.947	53.464	1.00	42.46
ATOM	29422	O	HOH	142	78.175	94.735	187.948	1.00	20.22
ATOM	29423	O	HOH	143	79.423	63.667	75.066	1.00	25.68
ATOM	29424	O	HOH	144	75.051	7.348	7.851	1.00	48.59
ATOM	29425	O	HOH	145	81.704	34.545	20.472	1.00	62.23
ATOM	29426	O	HOH	146	53.215	149.131	103.220	1.00	9.35
ATOM	29427	O	HOH	147	59.930	43.788	81.714	1.00	26.33
ATOM	29428	O	HOH	148	14.219	27.315	53.906	1.00	52.37
ATOM	29429	O	HOH	149	-14.364	131.009	211.250	1.00	57.64
ATOM	29430	O	HOH	150	57.354	149.114	110.095	1.00	44.90
ATOM	29431	O	HOH	151	69.838	132.688	114.594	1.00	34.06
ATOM	29432	O	HOH	152	79.768	85.543	49.932	1.00	9.65
ATOM	29433	O	HOH	153	123.247	124.085	150.647	1.00	18.23
ATOM	29434	O	HOH	154	74.010	69.213	53.271	1.00	37.36
ATOM	29435	O	HOH	155	89.609	122.301	203.824	1.00	19.82
ATOM	29436	O	HOH	156	23.388	10.329	52.436	1.00	47.55
ATOM	29437	O	HOH	157	30.948	141.818	149.543	1.00	39.83
ATOM	29438	O	HOH	158	88.566	151.859	143.129	1.00	39.90
ATOM	29439	O	HOH	159	76.190	83.878	56.531	1.00	47.61
ATOM	29440	O	HOH	160	76.792	94.052	63.719	1.00	13.33
ATOM	29441	O	HOH	161	72.215	117.425	138.933	1.00	47.56
ATOM	29442	O	HOH	162	95.305	136.518	157.842	1.00	35.78
ATOM	29443	O	HOH	163	64.180	-10.755	21.795	1.00	28.12
ATOM	29444	O	HOH	164	112.587	123.701	138.700	1.00	29.53
ATOM	29445	O	HOH	165	86.403	62.164	76.277	1.00	42.81
ATOM	29446	O	HOH	166	55.051	133.779	119.256	1.00	28.28
ATOM	29447	O	HOH	167	102.528	114.893	128.140	1.00	73.33
ATOM	29448	O	HOH	168	72.280	-6.852	22.506	1.00	42.25

ATOM	29449	O	HOH	169	75.966	155.171	129.660	1.00	54.07
ATOM	29450	O	HOH	170	62.621	-15.670	22.832	1.00	82.35
ATOM	29451	O	HOH	171	112.459	158.953	126.918	1.00	24.26
ATOM	29452	O	HOH	172	73.942	-10.502	-1.425	1.00	30.96
ATOM	29453	O	HOH	173	115.713	114.819	163.481	1.00	30.43
ATOM	29454	O	HOH	174	30.158	104.313	131.525	1.00	47.61
ATOM	29455	O	HOH	175	59.026	73.589	161.936	1.00	25.30
ATOM	29456	O	HOH	176	83.282	21.705	67.758	1.00	31.47
ATOM	29457	O	HOH	177	68.967	48.676	81.553	1.00	27.05
ATOM	29458	O	HOH	178	48.546	112.055	180.214	1.00	32.24
ATOM	29459	O	HOH	179	45.493	23.318	109.513	1.00	49.80
ATOM	29460	O	HOH	180	52.568	76.134	182.572	1.00	46.25
ATOM	29461	O	HOH	181	57.773	66.341	186.419	1.00	58.09
ATOM	29462	O	HOH	182	76.359	64.306	166.773	1.00	52.20
ATOM	29463	O	HOH	183	61.836	21.679	27.001	1.00	40.94
ATOM	29464	O	HOH	184	117.030	-29.460	75.282	1.00	48.97
ATOM	29465	O	HOH	185	62.431	54.648	163.061	1.00	49.15
ATOM	29466	O	HOH	186	71.737	10.979	80.318	1.00	46.45
ATOM	29467	O	HOH	187	71.910	-11.200	26.892	1.00	27.14
ATOM	29468	O	HOH	188	83.636	-6.958	2.924	1.00	40.30
ATOM	29469	O	HOH	189	56.534	142.484	103.541	1.00	44.54
ATOM	29470	O	HOH	190	106.717	131.761	158.416	1.00	36.70
ATOM	29471	O	HOH	191	98.288	123.556	148.426	1.00	29.49
ATOM	29472	O	HOH	192	30.323	0.025	50.768	1.00	40.77
ATOM	29473	O	HOH	193	60.178	60.066	181.140	1.00	54.72
ATOM	29474	O	HOH	194	112.228	129.938	154.306	1.00	24.72
ATOM	29475	O	HOH	195	62.410	69.250	66.205	1.00	42.23
ATOM	29476	O	HOH	196	69.911	19.998	31.486	1.00	40.52
ATOM	29477	O	HOH	197	51.842	98.077	206.680	1.00	58.62
ATOM	29478	O	HOH	198	43.106	8.782	28.211	1.00	26.74
ATOM	29479	O	HOH	199	92.688	115.498	217.039	1.00	32.01
ATOM	29480	O	HOH	200	59.183	23.145	102.935	1.00	29.76
ATOM	29481	O	HOH	201	48.514	0.560	28.492	1.00	26.51
ATOM	29482	O	HOH	202	67.054	27.405	52.504	1.00	33.56
ATOM	29483	O	HOH	203	66.192	67.193	182.136	1.00	36.25
ATOM	29484	O	HOH	204	58.376	52.804	156.561	1.00	17.07
ATOM	29485	O	HOH	205	13.156	-12.961	29.712	1.00	37.06
ATOM	29486	O	HOH	206	81.833	62.486	73.993	1.00	61.36
ATOM	29487	O	HOH	207	36.464	-24.069	31.667	1.00	33.32
ATOM	29488	O	HOH	208	69.463	89.743	188.349	1.00	37.26
ATOM	29489	O	HOH	209	80.191	85.294	53.381	1.00	26.82
ATOM	29490	O	HOH	210	82.989	-3.079	-3.303	1.00	45.29
ATOM	29491	O	HOH	211	99.893	109.116	148.463	1.00	58.64
ATOM	29492	O	HOH	212	121.420	110.219	152.745	1.00	27.99
ATOM	29493	O	HOH	213	64.056	140.465	128.921	1.00	30.70
ATOM	29494	O	HOH	214	55.783	53.638	99.142	1.00	26.00
ATOM	29495	O	HOH	215	25.849	-20.858	20.231	1.00	25.76
ATOM	29496	O	HOH	216	11.097	30.495	60.461	1.00	30.53
ATOM	29497	O	HOH	217	90.071	-4.883	-3.596	1.00	35.55
ATOM	29498	O	HOH	218	64.051	58.084	157.039	1.00	38.99
ATOM	29499	O	HOH	219	95.165	129.639	134.863	1.00	15.04
ATOM	29500	O	HOH	220	81.469	53.387	96.615	1.00	44.74
ATOM	29501	O	HOH	221	109.924	121.551	157.196	1.00	51.48
ATOM	29502	O	HOH	222	66.914	63.823	182.438	1.00	45.09
ATOM	29503	O	HOH	223	29.708	144.460	152.169	1.00	39.47
ATOM	29504	O	HOH	224	96.919	159.885	128.942	1.00	53.92
ATOM	29505	O	HOH	225	59.542	24.416	93.344	1.00	23.19
ATOM	29506	O	HOH	226	87.787	77.704	62.726	1.00	52.42
ATOM	29507	O	HOH	227	58.237	74.987	181.787	1.00	34.60
ATOM	29508	O	HOH	228	107.012	108.944	169.468	1.00	48.96
ATOM	29509	O	HOH	229	85.146	43.446	84.994	1.00	20.26
ATOM	29510	O	HOH	230	65.948	100.423	209.818	1.00	38.61

ATOM	29511	O	HOH	231	58.377	57.405	163.534	1.00	32.63
ATOM	29512	O	HOH	232	111.399	132.460	135.235	1.00	42.71
ATOM	29513	O	HOH	233	63.424	32.751	102.810	1.00	23.14
ATOM	29514	O	HOH	234	79.373	114.974	209.494	1.00	38.69
ATOM	29515	O	HOH	235	127.291	-18.978	79.581	1.00	29.01
ATOM	29516	O	HOH	236	65.070	92.956	191.852	1.00	18.50
ATOM	29517	O	HOH	237	82.602	60.183	77.873	1.00	48.08
ATOM	29518	O	HOH	238	21.754	146.120	186.886	1.00	36.98
ATOM	29519	O	HOH	239	-6.263	99.209	206.013	1.00	42.21
ATOM	29520	O	HOH	240	82.928	122.374	203.753	1.00	16.07
ATOM	29521	O	HOH	241	152.921	30.633	88.625	1.00	37.71
ATOM	29522	O	HOH	242	72.757	82.185	50.424	1.00	36.56
ATOM	29523	O	HOH	243	45.037	101.850	191.681	1.00	43.69
ATOM	29524	O	HOH	244	65.723	55.865	156.993	1.00	45.94
ATOM	29525	O	HOH	245	72.903	45.755	85.354	1.00	15.52
ATOM	29526	O	HOH	246	6.903	146.484	181.471	1.00	42.92
ATOM	29527	O	HOH	247	44.517	-7.708	34.698	1.00	22.69
ATOM	29528	O	HOH	248	55.323	75.885	183.395	1.00	45.35
ATOM	29529	O	HOH	249	107.419	150.804	147.847	1.00	22.39
ATOM	29530	O	HOH	250	121.493	128.713	158.362	1.00	28.24
ATOM	29531	O	HOH	251	28.177	108.952	196.336	1.00	30.88
ATOM	29532	O	HOH	252	91.549	116.087	194.204	1.00	24.93
ATOM	29533	O	HOH	253	44.328	145.767	116.677	1.00	13.07
ATOM	29534	O	HOH	254	73.873	90.018	49.501	1.00	56.45
ATOM	29535	O	HOH	255	34.742	132.288	156.053	1.00	46.15
ATOM	29536	O	HOH	256	68.282	-27.263	13.997	1.00	30.70
ATOM	29537	O	HOH	257	66.798	77.874	70.625	1.00	26.55
ATOM	29538	O	HOH	258	26.581	32.020	37.624	1.00	29.84
ATOM	29539	O	HOH	259	77.291	132.357	128.466	1.00	28.96
ATOM	29540	O	HOH	260	61.184	63.323	158.491	1.00	36.67
ATOM	29541	O	HOH	261	50.804	61.124	167.791	1.00	33.56
ATOM	29542	O	HOH	262	76.923	44.267	87.728	1.00	23.98
ATOM	29543	O	HOH	263	49.057	15.818	97.336	1.00	34.12
ATOM	29544	O	HOH	264	61.467	93.478	194.491	1.00	22.63
ATOM	29545	O	HOH	265	79.532	92.527	190.168	1.00	35.36
ATOM	29546	O	HOH	266	38.331	8.414	35.391	1.00	34.66
ATOM	29547	O	HOH	267	50.175	104.893	163.078	1.00	42.60
ATOM	29548	O	HOH	268	112.345	20.790	24.502	1.00	54.68
ATOM	29549	O	HOH	269	78.893	113.741	199.780	1.00	38.85
ATOM	29550	O	HOH	270	65.154	2.364	3.278	1.00	30.56
ATOM	29551	O	HOH	271	71.709	95.605	211.118	1.00	51.89
ATOM	29552	O	HOH	272	41.339	16.348	99.420	1.00	35.61
ATOM	29553	O	HOH	273	52.875	94.941	191.596	1.00	17.34
ATOM	29554	O	HOH	274	86.401	76.252	50.488	1.00	49.24
ATOM	29555	O	HOH	275	116.866	-1.547	66.457	1.00	65.01
ATOM	29556	O	HOH	276	14.277	18.867	44.684	1.00	56.78
ATOM	29557	O	HOH	277	61.826	73.683	60.212	1.00	59.23
ATOM	29558	O	HOH	278	28.808	-2.925	54.882	1.00	76.31
ATOM	29559	O	HOH	279	72.436	73.308	167.904	1.00	30.39
ATOM	29560	O	HOH	280	60.702	66.637	160.171	1.00	27.02
ATOM	29561	O	HOH	281	39.389	-17.905	46.236	1.00	41.83
ATOM	29562	O	HOH	282	67.630	91.239	191.350	1.00	20.10
ATOM	29563	O	HOH	283	66.661	60.494	61.969	1.00	26.41
ATOM	29564	O	HOH	284	27.581	6.633	22.261	1.00	28.16
ATOM	29565	O	HOH	285	98.367	149.779	129.953	1.00	30.24
ATOM	29566	O	HOH	286	39.640	31.711	115.999	1.00	44.33
ATOM	29567	O	HOH	287	35.997	27.276	21.410	1.00	35.40
ATOM	29568	O	HOH	288	52.095	71.991	175.194	1.00	38.98
ATOM	29569	O	HOH	289	117.030	110.211	167.312	1.00	26.09
ATOM	29570	O	HOH	290	21.578	140.609	172.652	1.00	38.77
ATOM	29571	O	HOH	291	53.802	149.738	106.593	1.00	49.99
ATOM	29572	O	HOH	292	60.690	26.100	101.037	1.00	25.82

ATOM	29573	O	HOH	293	78.792	59.929	76.530	1.00	59.12
ATOM	29574	O	HOH	294	60.185	-12.992	24.901	1.00	38.26
ATOM	29575	O	HOH	295	39.709	13.648	107.040	1.00	55.00
ATOM	29576	O	HOH	296	77.705	116.294	191.123	1.00	38.94
ATOM	29577	O	HOH	297	78.556	-18.870	19.951	1.00	58.93
ATOM	29578	O	HOH	298	65.645	47.405	156.309	1.00	54.08
ATOM	29579	O	HOH	299	47.689	134.733	153.143	1.00	56.00
ATOM	29580	O	HOH	300	45.946	-3.618	32.126	1.00	16.00
ATOM	29581	O	HOH	301	8.422	-7.176	20.317	1.00	58.33
ATOM	29582	O	HOH	302	79.125	9.785	69.074	1.00	45.40
ATOM	29583	O	HOH	303	110.070	-1.115	105.815	1.00	39.46
ATOM	29584	O	HOH	304	91.347	159.203	141.587	1.00	40.46
ATOM	29585	O	HOH	305	97.318	120.956	206.046	1.00	19.72
ATOM	29586	O	HOH	306	41.127	150.672	171.349	1.00	37.72
ATOM	29587	O	HOH	307	60.259	78.875	183.153	1.00	50.71
ATOM	29588	O	HOH	308	66.984	89.113	171.592	1.00	31.10
ATOM	29589	O	HOH	309	48.677	48.281	86.808	1.00	51.34
ATOM	29590	O	HOH	310	73.451	17.117	78.354	1.00	57.85
ATOM	29591	O	HOH	311	40.087	-11.903	27.150	1.00	30.22
ATOM	29592	O	HOH	312	88.663	47.315	86.539	1.00	35.25
ATOM	29593	O	HOH	313	42.553	-21.298	41.546	1.00	28.36
ATOM	29594	O	HOH	314	53.019	140.933	108.959	1.00	44.44
ATOM	29595	O	HOH	315	14.495	30.496	54.526	1.00	44.98
ATOM	29596	O	HOH	316	127.613	107.610	167.027	1.00	43.15
ATOM	29597	O	HOH	317	63.560	143.683	129.725	1.00	39.52
ATOM	29598	O	HOH	318	19.208	11.402	29.903	1.00	27.95
ATOM	29599	O	HOH	319	76.516	120.689	196.328	1.00	41.50
ATOM	29600	O	HOH	320	102.132	133.086	157.310	1.00	26.04
ATOM	29601	O	HOH	321	24.406	9.708	40.188	1.00	25.55
ATOM	29602	O	HOH	322	124.947	145.899	118.832	1.00	25.53
ATOM	29603	O	HOH	323	66.563	-16.891	15.540	1.00	38.90
ATOM	29604	O	HOH	324	113.536	-13.033	49.151	1.00	40.71
ATOM	29605	O	HOH	325	62.932	115.998	171.641	1.00	47.19
ATOM	29606	O	HOH	326	35.440	159.035	180.230	1.00	38.02
ATOM	29607	O	HOH	327	94.930	101.170	209.854	1.00	43.67
ATOM	29608	O	HOH	328	77.661	117.843	193.827	1.00	33.15
ATOM	29609	O	HOH	329	47.730	22.135	24.720	1.00	54.70
ATOM	29610	O	HOH	330	64.182	143.225	138.467	1.00	53.47
ATOM	29611	O	HOH	331	21.145	8.818	30.707	1.00	58.02
ATOM	29612	O	HOH	332	56.846	84.797	203.352	1.00	37.22
ATOM	29613	O	HOH	333	17.185	27.813	45.266	1.00	23.75
ATOM	29614	O	HOH	334	63.364	128.336	118.554	1.00	29.48
ATOM	29615	O	HOH	335	121.502	5.961	71.920	1.00	33.44
ATOM	29616	O	HOH	336	78.913	-16.948	-1.422	1.00	26.04
ATOM	29617	O	HOH	337	82.838	84.524	206.340	1.00	36.67
ATOM	29618	O	HOH	338	62.015	77.650	163.172	1.00	39.33
ATOM	29619	O	HOH	339	92.910	128.104	137.059	1.00	38.92
ATOM	29620	O	HOH	340	98.502	106.266	222.501	1.00	42.88
ATOM	29621	O	HOH	341	99.132	116.273	140.091	1.00	33.63
ATOM	29622	O	HOH	342	58.941	45.828	83.785	1.00	31.34
ATOM	29623	O	HOH	343	36.655	-7.334	30.008	1.00	37.89
ATOM	29624	O	HOH	344	83.588	28.885	28.895	1.00	34.34
ATOM	29625	O	HOH	345	98.421	15.316	22.674	1.00	61.57
ATOM	29626	O	HOH	346	96.088	138.491	125.422	1.00	71.24
ATOM	29627	O	HOH	347	101.561	-12.443	62.110	1.00	23.58
ATOM	29628	O	HOH	348	96.195	118.140	144.282	1.00	28.85
ATOM	29629	O	HOH	349	89.917	138.192	134.890	1.00	26.35
ATOM	29630	O	HOH	350	123.255	42.559	71.027	1.00	39.41
ATOM	29631	O	HOH	351	3.145	127.663	183.278	1.00	59.04
ATOM	29632	O	HOH	352	26.176	123.107	124.949	1.00	26.32
ATOM	29633	O	HOH	353	71.195	74.099	75.522	1.00	48.05
ATOM	29634	O	HOH	354	105.429	137.512	132.672	1.00	32.75

ATOM	29635	O	HOH	355	15.270	95.488	177.796	1.00	31.74
ATOM	29636	O	HOH	356	-11.702	94.407	209.574	1.00	61.46
ATOM	29637	O	HOH	357	112.773	-35.199	50.874	1.00	56.49
ATOM	29638	O	HOH	358	65.918	19.484	39.298	1.00	54.19
ATOM	29639	O	HOH	359	115.488	-21.886	77.964	1.00	53.23
ATOM	29640	O	HOH	360	106.098	133.007	150.993	1.00	31.63
ATOM	29641	O	HOH	361	55.891	119.239	160.616	1.00	53.72
ATOM	29642	O	HOH	362	47.998	91.470	194.967	1.00	44.66
ATOM	29643	O	HOH	363	50.562	0.668	10.612	1.00	35.09
ATOM	29644	O	HOH	364	73.751	57.492	93.437	1.00	39.27
ATOM	29645	O	HOH	365	49.795	10.871	25.784	1.00	44.14
ATOM	29646	O	HOH	366	85.287	2.077	14.171	1.00	35.19
ATOM	29647	O	HOH	367	38.840	10.680	114.199	1.00	57.80
ATOM	29648	O	HOH	368	46.460	149.671	122.859	1.00	37.92
ATOM	29649	O	HOH	369	95.342	15.225	30.898	1.00	37.98
ATOM	29650	O	HOH	370	97.335	120.675	142.459	1.00	56.26
ATOM	29651	O	HOH	371	63.288	132.511	141.251	1.00	53.83
ATOM	29652	O	HOH	372	72.183	61.543	159.691	1.00	33.57
ATOM	29653	O	HOH	373	88.712	124.745	205.197	1.00	36.83
ATOM	29654	O	HOH	374	56.698	5.346	36.655	1.00	55.96
ATOM	29655	O	HOH	375	65.100	62.655	77.165	1.00	50.44
ATOM	29656	O	HOH	376	104.549	147.940	134.453	1.00	40.57
ATOM	29657	O	HOH	377	58.049	92.491	143.861	1.00	46.35

WE CLAIM:

1. A method of preventing a urinary tract infection caused by *E. coli* infection in a human subject, said method comprising administering to said human subject a dose of a prophylactically effective amount of one or more antibodies or fragments thereof that immunospecifically bind to one or more antigens of a mutant FimH protein having one or more amino acid mutations.
2. A method of treating or ameliorating one or more symptoms associated with a urinary tract infection in a human subject infected with *E. coli*, said method comprising administering to said human subject a dose of a therapeutically effective amount of one or more antibodies or fragments thereof that immunospecifically bind to one or more antigens of a mutant FimH protein having one or more amino acid mutations.
3. The method of claim 1 or 2, wherein one or more of said amino acid mutations occur in a residue corresponding to a residue of wild type FimH that directly contacts a mannose moiety when the wild type FimH binds mannose.
4. The method of claim 3, wherein said one or more amino acid mutations occur at one or more of residues 1, 46, 47, 54, 133, 135, 140, or 142 of FimH.
5. The method of claim 1 or 2, wherein one or more of said amino acid mutations occur within the hydrophobic ring around the mannose binding pocket of FimH.
6. The method of claim 5, wherein one or more of said amino acid mutations occur at one or more of residues 13, 18, 52, or 142 of FimH.
7. The method of claim 1 or 2, wherein one or more of said FimH mutations decrease the ability of FimH to bind mannose.
8. The method of claim 7, wherein one or more of said amino acid mutations occur at one or more of residues 1, 13, 46, 48, 52, 54, 62, 135, 137, 140, or 142 of FimH.
9. The method of claim 1 or 2, wherein said mutant FimH protein is FimH D54N, FimH Q133K, FimH Q133N, FimH Q133H, FimH Q133R, or FimH N135D.

10. The method of claim 1 or 2, wherein said antibody is a monoclonal antibody.
11. The method of claim 10, wherein said monoclonal antibody is 1C10, 1A7, or
5 1F12.
12. An isolated nucleic acid comprising a nucleotide sequence encoding a heavy or light chain variable domain of the antibody of claim 1, 2, or 11.
- 10 13. A vector comprising the nucleotide sequence of claim 12.
14. A host cell comprising the nucleotide sequence of claim 12 operably linked to a heterologous promoter.
- 15 15. A method for altering the antigenic properties of an adhesin protein or adhesin protein complex that binds an associated ligand, wherein said method comprises introducing one or more amino acid mutations into a starting adhesin protein or adhesin protein complex to yield a mutant adhesin protein or adhesin protein complex that elicits production of an antibody having increased functional inhibitory activity compared to an
20 antibody elicited by said starting adhesin protein or adhesin protein complex.
16. The method of claim 15, wherein said starting adhesin protein or adhesin protein complex comprises a PapG protein.
- 25 17. The method of claim 15, wherein said starting adhesin protein or adhesin protein complex comprises a FimH protein.
18. The method of claim 17, wherein the associated ligand is a mannose moiety.
- 30 19. The method of claim 15, wherein said resulting mutant adhesin protein or adhesin protein complex binds said associated ligand with decreased affinity than does said starting adhesin protein or adhesin protein complex.
- 35 20. The method of claim 17, wherein one or more of said amino acid mutations are introduced in a residue in said starting adhesin protein or adhesin protein complex that

directly contacts a mannose moiety when said starting adhesin protein or adhesin protein complex binds mannose.

5 21. The method of claim 20, wherein one or more of said amino acid mutations are introduced at one or more of residues 1, 46, 47, 54, 133, 135, 140, or 142 of FimH.

 22. The method of claim 17, wherein one or more of said amino acid mutations are introduced within the hydrophobic ring around the mannose binding pocket of FimH.

10 23. The method of claim 22, wherein one or more of said amino acid mutations are introduced at one or more of residues 13, 18, 52, or 142 of FimH.

 24. The method of claim 17, wherein said mutant adhesin protein or adhesin protein complex exhibits decreased binding to mannose compared to the binding of said
15 starting adhesin or adhesin protein complex to mannose.

 25. The method of claim 24, wherein one or more of said amino acid mutations are introduced at one or more of residues 1, 13, 46, 48, 52, 54, 62, 135, 137, 140, or 142 of
20 FimH.

 26. The method of claim 17, wherein one or more of said amino acid mutations are introduced in the canyon region of FimH.

25 27. The method of claim 26, wherein one or more of said amino acid mutations are introduced at one or more of residues 1, 13, 46, 47, 48, 52, 54, 133, 135, 137, 138, 140 or 142 of FimH.

 28. The method of claim 15, wherein said one or more amino acid mutations facilitate a more open protein conformation compared to that of said starting protein or
30 protein complex.

 29. The method of claim 17, wherein said mutant adhesin or adhesin protein complex comprises FimH D54N, FimH Q133K, FimH Q133N, FimH Q133H, FimH
35 Q133R, or FimH N135D.

30. A mutant FimH protein or FimH protein complex that binds an associated ligand, wherein said mutant FimH protein or FimH protein complex has one or more amino acid mutations relative to a starting FimH protein or FimH protein complex, and wherein said mutant FimH protein or FimH protein complex elicits production of an antibody having increased functional inhibitory activity compared to an antibody elicited by the starting FimH protein or FimH protein complex.

31. The mutant FimH protein or FimH protein complex of claim 30, wherein the associated ligand is a mannose moiety.

32. The mutant FimH protein or FimH protein complex of claim 30, wherein said mutant FimH protein or FimH protein complex binds said associated ligand with decreased affinity relative to said starting FimH protein or adhesin protein complex.

33. The mutant FimH protein or FimH protein complex of claim 30, wherein one or more of said amino acid mutations are introduced in a residue that directly contacts a mannose moiety when said starting FimH protein or FimH protein complex binds mannose.

34. The mutant FimH protein or FimH protein complex of claim 30, wherein one or more of said amino acid mutations are introduced at one or more of residues 1, 46, 47, 54, 133, 135, 140, or 142 of FimH.

35. The mutant FimH protein or FimH protein complex of claim 30, wherein one or more of said amino acid mutations are introduced within the hydrophobic ring around the mannose binding pocket of FimH.

36. The mutant FimH protein or FimH protein complex of claim 35, wherein one or more of said amino acid mutations are introduced at one or more of residues 13, 18, 52, or 142 of FimH.

37. The mutant FimH protein or FimH protein complex of claim 30, wherein said mutant FimH protein or adhesin protein complex exhibits decreased binding to mannose compared to said starting FimH protein or FimH protein complex.

38. The mutant FimH protein or FimH protein complex of claim 37, wherein one

or more of said amino acid mutations are introduced at one or more of residues 1, 13, 46, 48, 52, 54, 62, 135, 137, 140, or 142 of FimH.

5 39. The mutant FimH protein or FimH protein complex of claim 30, wherein one or more of said amino acid mutations are introduced in the canyon region of FimH.

 40. The mutant FimH protein or FimH protein complex of claim 39, wherein one or more of said amino acid mutations are introduced at one or more of residues 1, 13, 46, 47, 48, 52, 54, 133, 135, 137, 138, 140 or 142 of FimH.
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 41. The mutant FimH protein or FimH protein complex of claim 30, wherein said one or more amino acid mutations facilitate a more open protein conformation compared to that of said starting protein or protein complex.

15 42. The mutant FimH protein or FimH protein complex of claim 30, wherein said mutant FimH protein or FimH protein complex comprises FimH D54N, FimH Q133K, FimH Q133N, FimH Q133H, FimH Q133R, or FimH N135D.

 43. A vaccine composition comprising the mutant protein of claim 30; and a
20 pharmaceutically acceptable carrier.

 44. A method of vaccinating a subject comprising administering a prophylactically effective amount of the vaccine composition of claim 43.

25 45. An isolated nucleic acid comprising a nucleotide sequence encoding the protein of claim 30.

 46. A vector comprising the nucleotide sequence of claim 45.

30 47. A host cell comprising the nucleotide sequence of claim 45.

 48. A mutant protein or protein complex comprising a FimH protein that comprises a mutation selected from the group consisting of D54A, D54N, Q133K, Q133N, Q133H, Q133R, and N135D.
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49. A co-crystal comprising FimC, FimH and mannopyranoside in crystalline form.

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50. The co-crystal of Claim 49 in which the FimC or FimH is a mutant.

51. The co-crystal of Claim 50 in which the mutant is a conservative mutant.

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52. The co-crystal of Claim 50 in which the FimH is FimH Q133N

53. The co-crystal of Claim 50 in which the FimH comprises amino acids 1 to 158 of SEQ ID NO:4.

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54. The co-crystal of Claim 49, which is diffraction quality.

55. The co-crystal of Claim 49, which is a native crystal.

56. The co-crystal of Claim 49, which is a heavy-atom derivative crystal.

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57. The co-crystal of Claim 49, which is characterized by a unit cell of $a=138.077 \pm 0.2 \text{ \AA}$, $b=138.130 \pm 0.2 \text{ \AA}$, $c=215.352 \pm 0.2 \text{ \AA}$, $\alpha=90$, $\beta=90.005$, and $\gamma=90$.

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58. The co-crystal of Claim 49, which is produced by a method comprising the steps of:

- (a) mixing a volume of a solution comprising FimC, FimH and mannopyranoside with a volume of a reservoir solution comprising a precipitant; and
- (b) incubating the mixture obtained in step (a) over the reservoir solution in a closed container, under conditions suitable for crystallization until the crystal forms.

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59. The co-crystal of Claim 58, wherein the precipitant is present in a concentration between 0.6 M and 1.2 M.

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60. The co-crystal of Claim 58 wherein the precipitant is ammonium sulfate.

61. The co-crystal of Claim 58, wherein the solution further comprises between 50 mM and 100 mM Tris HCl.

5 62. The co-crystal of Claim 58, wherein the solution comprises between 0.5 mM and 30 mM mannopyranoside.

63. The co-crystal of Claim 58, wherein the solution has a pH of between 7.8 and 8.6.

10 64. A method of making the crystal of Claim 49, comprising:

(a) mixing a volume of a solution comprising the FimC, FimH and mannopyranoside with a volume of a reservoir solution comprising a precipitant; and

15 (b) incubating the mixture obtained in step (a) over the reservoir solution in a closed container, under conditions suitable for crystallization until the crystal forms.

20 65. The method of Claim 64, wherein the precipitant is present in a concentration between 0.6 M and 1.2 M.

66. The method of Claim 64, wherein the precipitant is ammonium sulfate.

25 67. The method of Claim 64, wherein the solution further comprises between 50 mM and 100 mM Tris HCl.

68. The method of Claim 64, wherein the solution comprises between 0.5 mM and 30 mM mannopyranoside.

30 69. The method of Claim 64, wherein the solution has a pH of between 7.8 and 8.6.

35 70. A machine-readable medium embedded with information that corresponds to a three-dimensional structural representation of a co-crystal comprising FimC, FimH, or a fragment or portion thereof, and a mannose sugar in crystalline form.

71. The machine readable medium of Claim 70, in which the crystal is diffraction quality.
- 5 72. The machine readable medium of Claim 70, in which the crystal is a native crystal.
73. The machine readable medium of Claim 70, in which the crystal is a heavy-atom derivative crystal.
- 10 74. The machine readable medium of Claim 70, in which the FimC or FimH is a mutant.
- 15 75. The machine readable medium of Claim 74, in which the mutant is a selenomethionine or selenocysteine mutant.
76. The machine readable medium of Claim 75, in which the mutant is a conservative mutant.
- 20 77. A machine-readable medium embedded with the atomic structure coordinates of Figure 2, or a subset thereof.
- 25 78. A method of identifying a FimC or FimH binding compound, comprising the step of using a three-dimensional structural representation of complex comprising FimC, FimH and mannopyranoside, or a fragment thereof, to computationally screen a candidate compound for an ability to bind FimC or FimH.
- 30 79. A method of identifying a FimC or FimH binding compound, comprising the step of using a three-dimensional structural representation of complex comprising FimC, FimH and mannopyranoside, or a fragment thereof, to computationally design a synthesizable candidate compound that binds FimC or FimH.
- 35 80. A machine-readable medium embedded with the atomic structure of Table 14 or Table 16, or a subset thereof.

81. A co-crystal comprising FimC, FimH, and a saccharide.

5

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35

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cgc gct gaa gcg gga gtg gcc tta ggt gcg act cgc gta att tat ccg Arg Ala Glu Ala Gly Val Ala Leu Gly Ala Thr Arg Val Ile Tyr Pro 35 40 45	144
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cag gac cgg gaa agt tta ttc tgg atg aac gtt aaa gcg att ccg tca Gln Asp Arg Glu Ser Leu Phe Trp Met Asn Val Lys Ala Ile Pro Ser 115 120 125	384
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aca ata aat gat tat ggc gca ctt acc ccc aaa atg acg ggc gta atg Thr Ile Asn Asp Tyr Gly Ala Leu Thr Pro Lys Met Thr Gly Val Met 225 230 235 240	720
gaa taa Glu	726

Figure 1A

Met	Ser	Asn	Lys	Asn	Val	Asn	Val	Arg	Lys	Ser	Gln	Glu	Ile	Thr	Phe
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Cys	Leu	Leu	Ala	Gly	Ile	Leu	Met	Phe	Met	Ala	Met	Met	Val	Ala	Gly
			20					25					30		
Arg	Ala	Glu	Ala	Gly	Val	Ala	Leu	Gly	Ala	Thr	Arg	Val	Ile	Tyr	Pro
		35					40					45			
Ala	Gly	Gln	Lys	Gln	Val	Gln	Leu	Ala	Val	Thr	Asn	Asn	Asp	Glu	Asn
		50				55					60				
Ser	Thr	Tyr	Leu	Ile	Gln	Ser	Trp	Val	Glu	Asn	Ala	Asp	Gly	Val	Lys
65					70					75					80
Asp	Gly	Arg	Phe	Ile	Val	Thr	Pro	Pro	Leu	Phe	Ala	Met	Lys	Gly	Lys
			85						90					95	
Lys	Glu	Asn	Thr	Leu	Arg	Ile	Leu	Asp	Ala	Thr	Asn	Asn	Gln	Leu	Pro
			100					105					110		
Gln	Asp	Arg	Glu	Ser	Leu	Phe	Trp	Met	Asn	Val	Lys	Ala	Ile	Pro	Ser
		115					120					125			
Met	Asp	Lys	Ser	Lys	Leu	Thr	Glu	Asn	Thr	Leu	Gln	Leu	Ala	Ile	Ile
	130					135					140				
Ser	Arg	Ile	Lys	Leu	Tyr	Tyr	Arg	Pro	Ala	Lys	Leu	Ala	Leu	Pro	Pro
145					150					155					160
Asp	Gln	Ala	Ala	Glu	Lys	Leu	Arg	Phe	Arg	Arg	Ser	Ala	Asn	Ser	Leu
			165					170						175	
Thr	Leu	Ile	Asn	Pro	Thr	Pro	Tyr	Tyr	Leu	Thr	Val	Thr	Glu	Leu	Asn
			180				185						190		
Ala	Gly	Thr	Arg	Val	Leu	Glu	Asn	Ala	Leu	Val	Pro	Pro	Met	Gly	Glu
		195					200					205			
Ser	Thr	Val	Lys	Leu	Pro	Ser	Asp	Ala	Gly	Ser	Asn	Ile	Thr	Tyr	Arg
	210					215					220				
Thr	Ile	Asn	Asp	Tyr	Gly	Ala	Leu	Thr	Pro	Lys	Met	Thr	Gly	Val	Met
225					230					235					240
Glu															

Figure 1B

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gta aat gcc tgg tca ttc gcc tgt aaa acc gcc aat ggt acc gct atc Val Asn Ala Trp Ser Phe Ala Cys Lys Thr Ala Asn Gly Thr Ala Ile -5 -1 1 5 10	96
cct att ggc ggt ggc agc gcc aat gtt tat gta aac ctt gcg ccc gtc Pro Ile Gly Gly Gly Ser Ala Asn Val Tyr Val Asn Leu Ala Pro Val 15 20 25	144
gtg aat gtg ggg caa aac ctg gtc gtg gat ctt tcg acg caa atc ttt Val Asn Val Gly Gln Asn Leu Val Val Asp Leu Ser Thr Gln Ile Phe 30 35 40	192
tgc cat aac gat tat ccg gaa acc att aca gac tat gtc aca ctg caa Cys His Asn Asp Tyr Pro Glu Thr Ile Thr Asp Tyr Val Thr Leu Gln 45 50 55	240
cga ggc tcg gct tat ggc ggc gtg tta tct aat ttt tcc ggg acc gta Arg Gly Ser Ala Tyr Gly Gly Val Leu Ser Asn Phe Ser Gly Thr Val 60 65 70 75	288
aaa tat agt ggc agt agc tat cca ttt cct acc acc agc gaa acg ccg Lys Tyr Ser Gly Ser Ser Tyr Pro Phe Pro Thr Thr Ser Glu Thr Pro 80 85 90	336
cgc gtt gtt tat aat tcg aga acg gat aag ccg tgg ccg gtg gcg ctt Arg Val Val Tyr Asn Ser Arg Thr Asp Lys Pro Trp Pro Val Ala Leu 95 100 105	384
tat ttg acg cct gtg agc agt gcg ggc ggg gtg gcg att aaa gct ggc Tyr Leu Thr Pro Val Ser Ser Ala Gly Gly Val Ala Ile Lys Ala Gly 110 115 120	432
tca tta att gcc gtg ctt att ttg cga cag acc aac aac tat aac agc Ser Leu Ile Ala Val Leu Ile Leu Arg Gln Thr Asn Asn Tyr Asn Ser 125 130 135	480
gat gat ttc cag ttt gtg tgg aat att tac gcc aat aat gat gtg gtg Asp Asp Phe Gln Phe Val Trp Asn Ile Tyr Ala Asn Asn Asp Val Val 140 145 150 155	528
gtg cct act ggc ggc tgc gat gtt tct gct cgt gat gtc acc gtt act Val Pro Thr Gly Gly Cys Asp Val Ser Ala Arg Asp Val Thr Val Thr 160 165 170	576
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Figure 1C

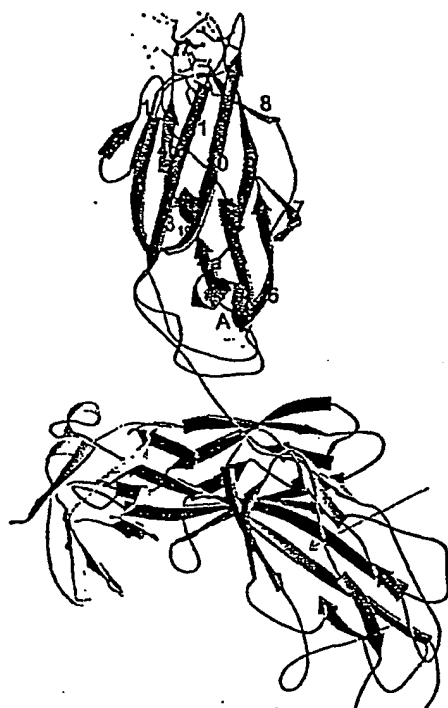
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Ala Gly Asn Ser Ile Phe Thr Asn Thr Ala Ser Phe Ser Pro Ala Gln	
205 210 215	
ggc gtc ggc gta cag ttg acg cgc aac ggt acg att att cca gcg aat	768
Gly Val Gly Val Gln Leu Thr Arg Asn Gly Thr Ile Ile Pro Ala Asn	
220 225 230 235	
aac acg gta tcg tta gga gca gta ggg act tcg gcg gtg agt ctg gga	816
Asn Thr Val Ser Leu Gly Ala Val Gly Thr Ser Ala Val Ser Leu Gly	
240 245 250	
tta acg gca aat tat gca cgt acc gga ggc cag gtg act gca ggc aat	864
Leu Thr Ala Asn Tyr Ala Arg Thr Gly Gly Gln Val Thr Ala Gly Asn	
255 260 265	
gtg caa tcg att att ggc gtg act ttt gtt tat caa taa	903
Val Gln Ser Ile Ile Gly Val Thr Phe Val Tyr Gln	
270 275	

Figure 1C (Cont'd)

Met	Lys	Arg	Val	Ile	Thr	Leu	Phe	Ala	Val	Leu	Leu	Met	Gly	Trp	Ser
-20						-15					-10				
Val	Asn	Ala	Trp	Ser	Phe	Ala	Cys	Lys	Thr	Ala	Asn	Gly	Thr	Ala	Ile
-5				-1	1				5					10	
Pro	Ile	Gly	Gly	Gly	Ser	Ala	Asn	Val	Tyr	Val	Asn	Leu	Ala	Pro	Val
			15					20					25		
Val	Asn	Val	Gly	Gln	Asn	Leu	Val	Val	Asp	Leu	Ser	Thr	Gln	Ile	Phe
		30					35					40			
Cys	His	Asn	Asp	Tyr	Pro	Glu	Thr	Ile	Thr	Asp	Tyr	Val	Thr	Leu	Gln
	45					50					55				
Arg	Gly	Ser	Ala	Tyr	Gly	Gly	Val	Leu	Ser	Asn	Phe	Ser	Gly	Thr	Val
60					65					70					75
Lys	Tyr	Ser	Gly	Ser	Ser	Tyr	Pro	Phe	Pro	Thr	Thr	Ser	Glu	Thr	Pro
				80					85					90	
Arg	Val	Val	Tyr	Asn	Ser	Arg	Thr	Asp	Lys	Pro	Trp	Pro	Val	Ala	Leu
			95				100						105		
Tyr	Leu	Thr	Pro	Val	Ser	Ser	Ala	Gly	Gly	Val	Ala	Ile	Lys	Ala	Gly
	110						115					120			
Ser	Leu	Ile	Ala	Val	Leu	Ile	Leu	Arg	Gln	Thr	Asn	Asn	Tyr	Asn	Ser
	125					130					135				
Asp	Asp	Phe	Gln	Phe	Val	Trp	Asn	Ile	Tyr	Ala	Asn	Asn	Asp	Val	Val
140					145					150					155
Val	Pro	Thr	Gly	Gly	Cys	Asp	Val	Ser	Ala	Arg	Asp	Val	Thr	Val	Thr
				160						165				170	
Leu	Pro	Asp	Tyr	Pro	Gly	Ser	Val	Pro	Ile	Pro	Leu	Thr	Val	Tyr	Cys
		175						180					185		
Ala	Lys	Ser	Gln	Asn	Leu	Gly	Tyr	Tyr	Leu	Ser	Gly	Thr	Thr	Ala	Asp
	190						195					200			
Ala	Gly	Asn	Ser	Ile	Phe	Thr	Asn	Thr	Ala	Ser	Phe	Ser	Pro	Ala	Gln
	205					210					215				
Gly	Val	Gly	Val	Gln	Leu	Thr	Arg	Asn	Gly	Thr	Ile	Ile	Pro	Ala	Asn
220					225					230					235
Asn	Thr	Val	Ser	Leu	Gly	Ala	Val	Gly	Thr	Ser	Ala	Val	Ser	Leu	Gly
				240					245					250	
Leu	Thr	Ala	Asn	Tyr	Ala	Arg	Thr	Gly	Gly	Gln	Val	Thr	Ala	Gly	Asn
			255				260						265		
Val	Gln	Ser	Ile	Ile	Gly	Val	Thr	Phe	Val	Tyr	Gln				
		270					275								

Figure 1D

a



b

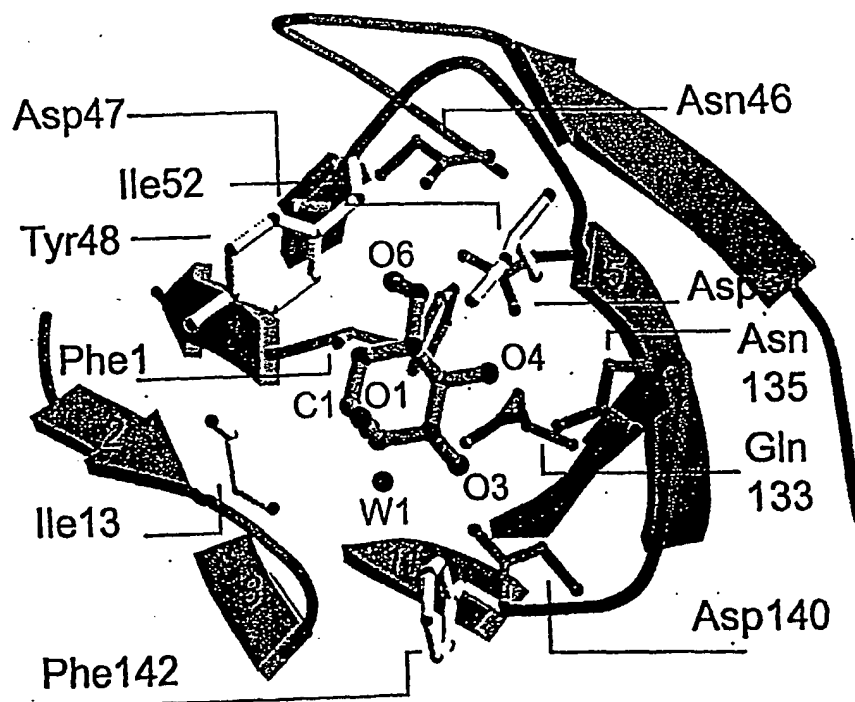
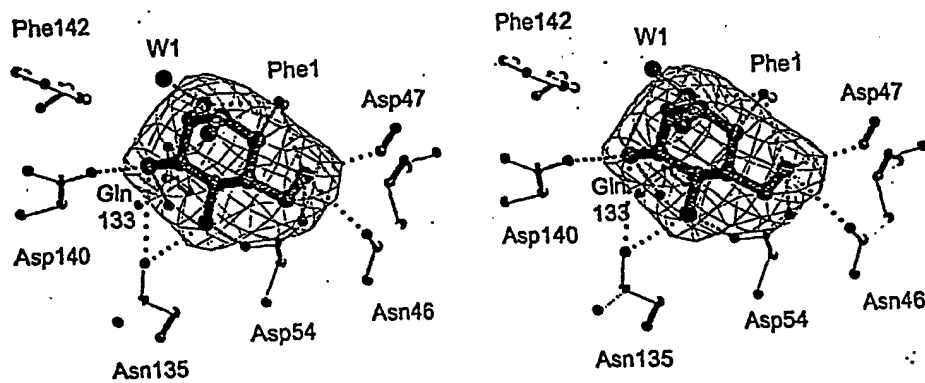


Figure 2

c



d



Figure 2

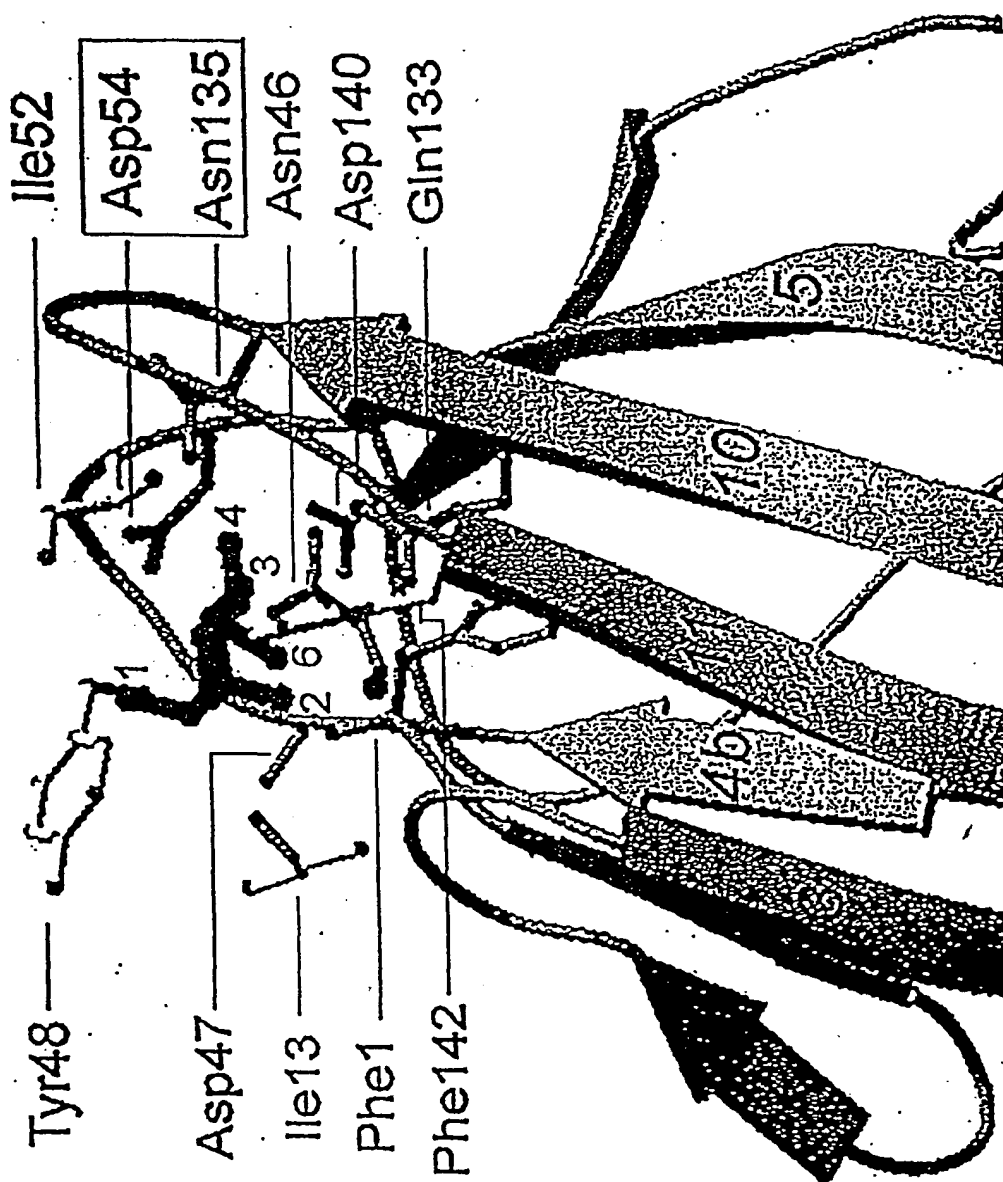


Figure 2

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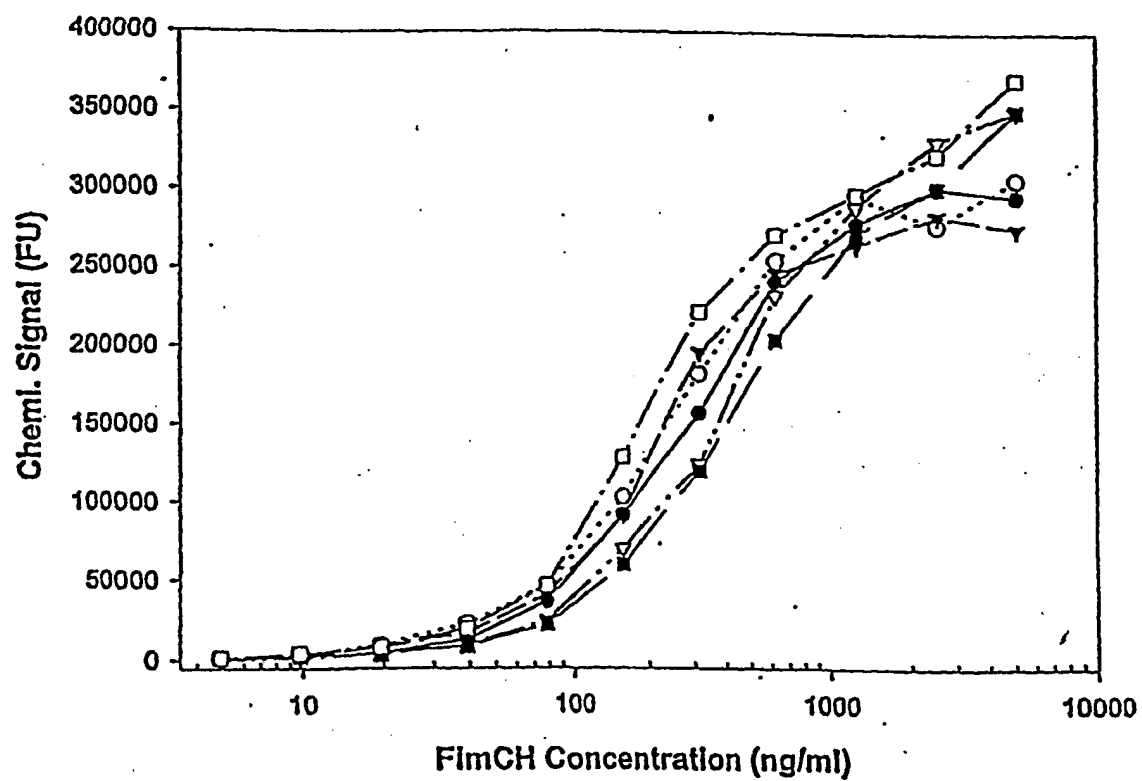


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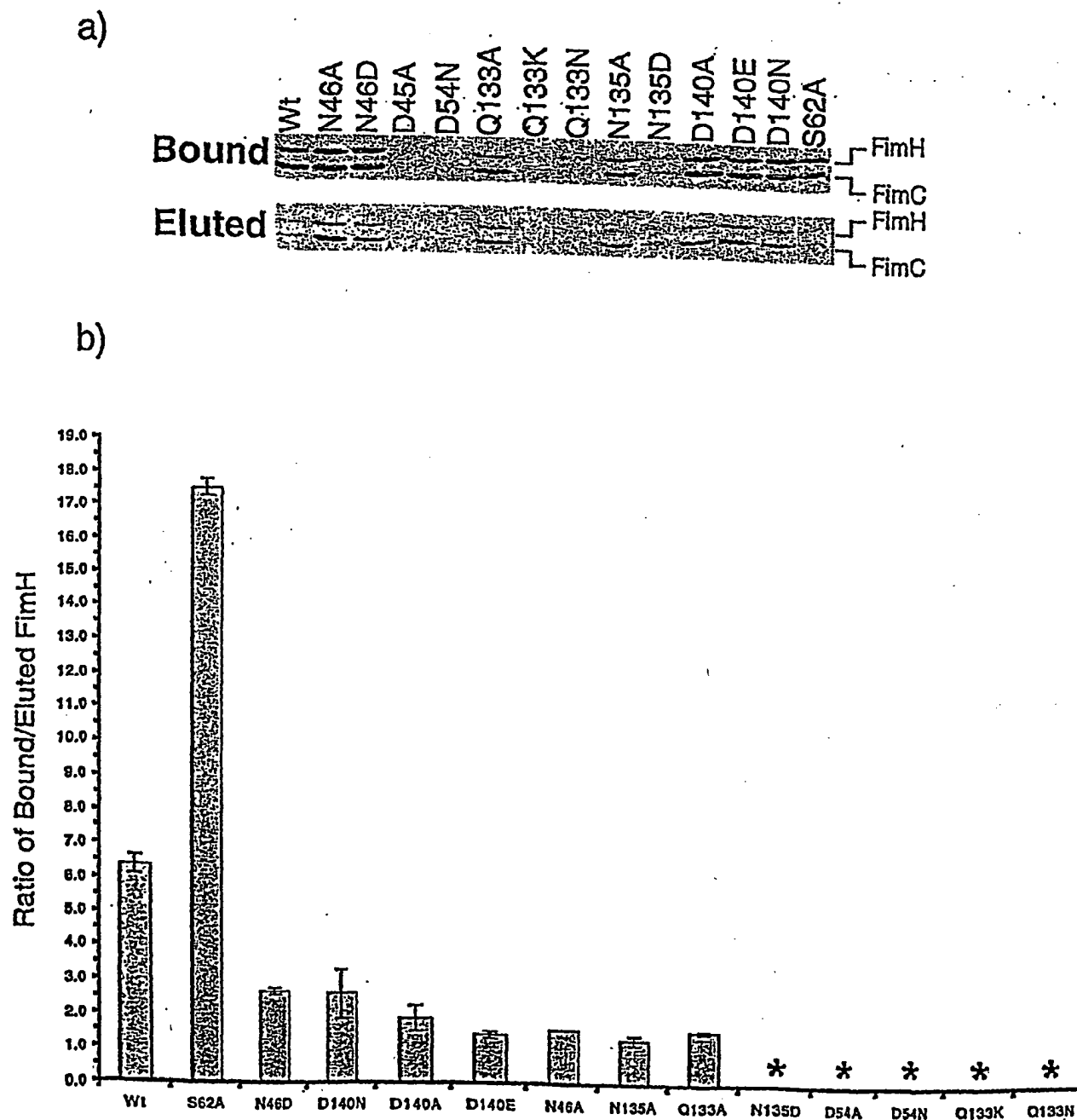


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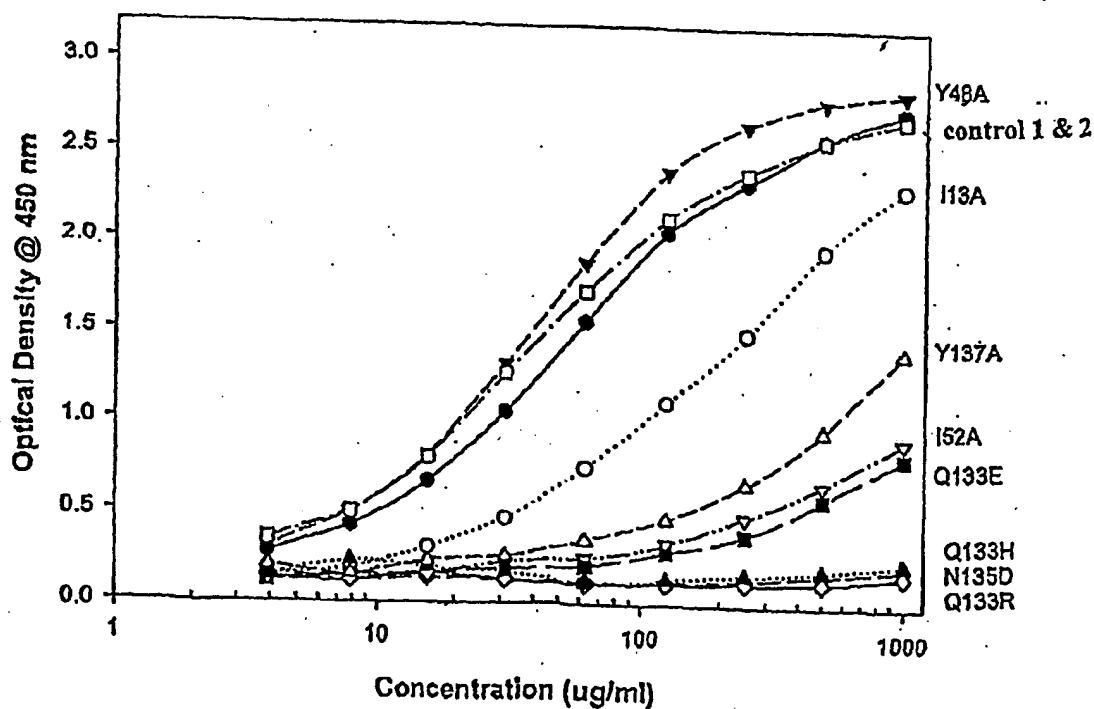
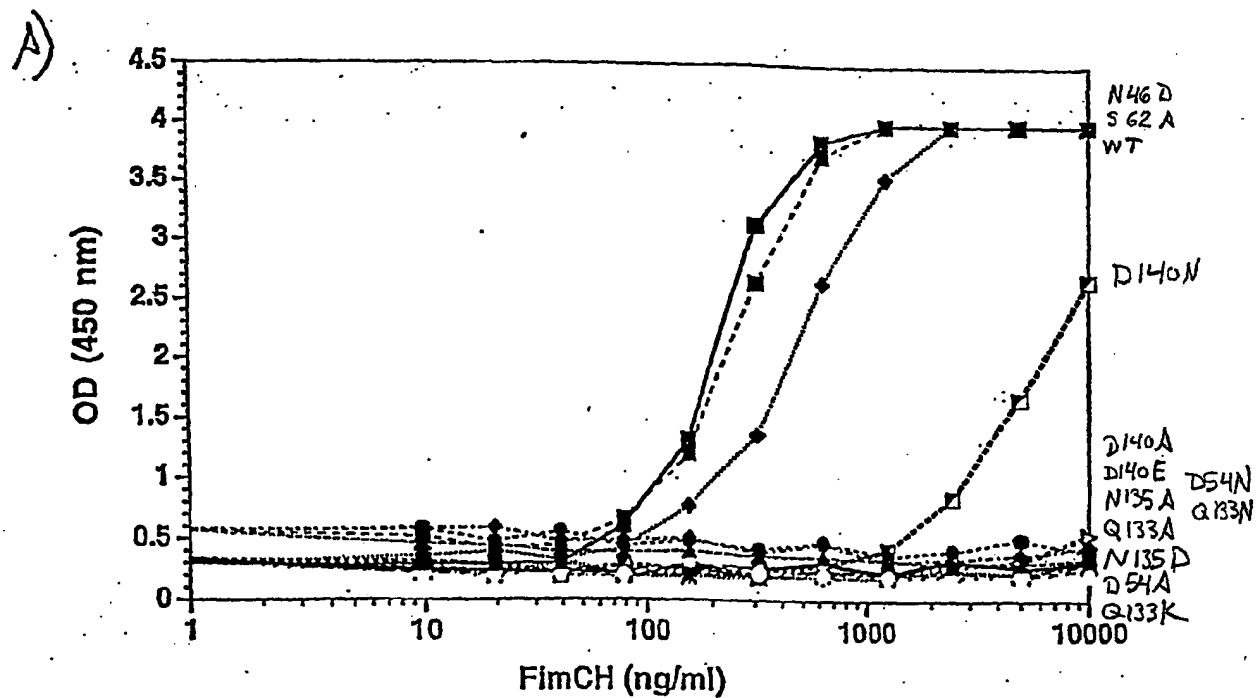


Figure 6

B)

10271-050

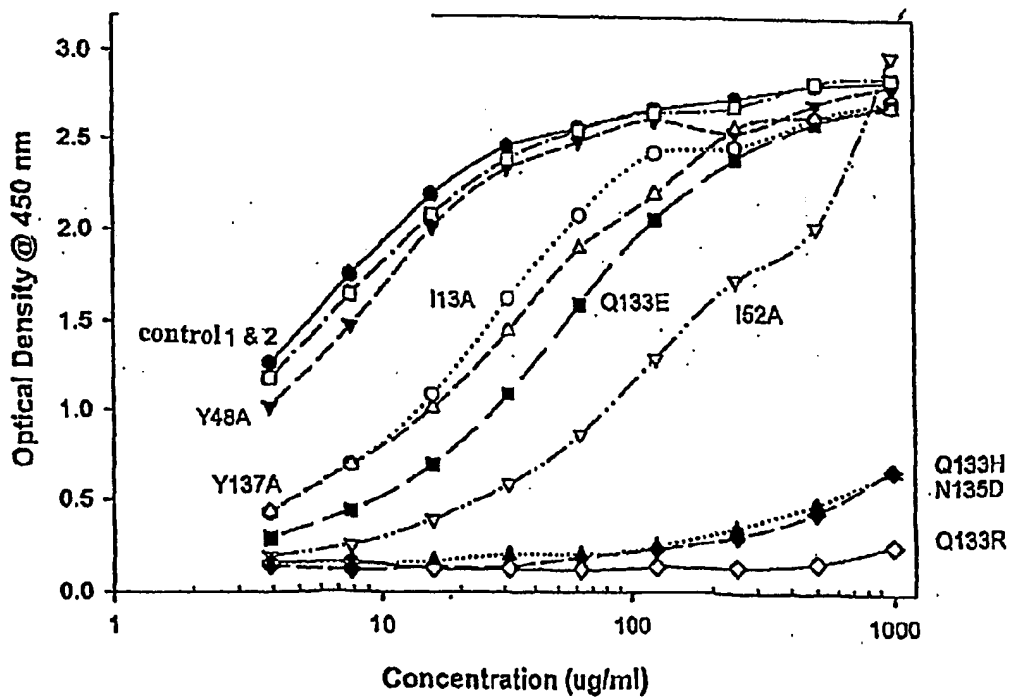
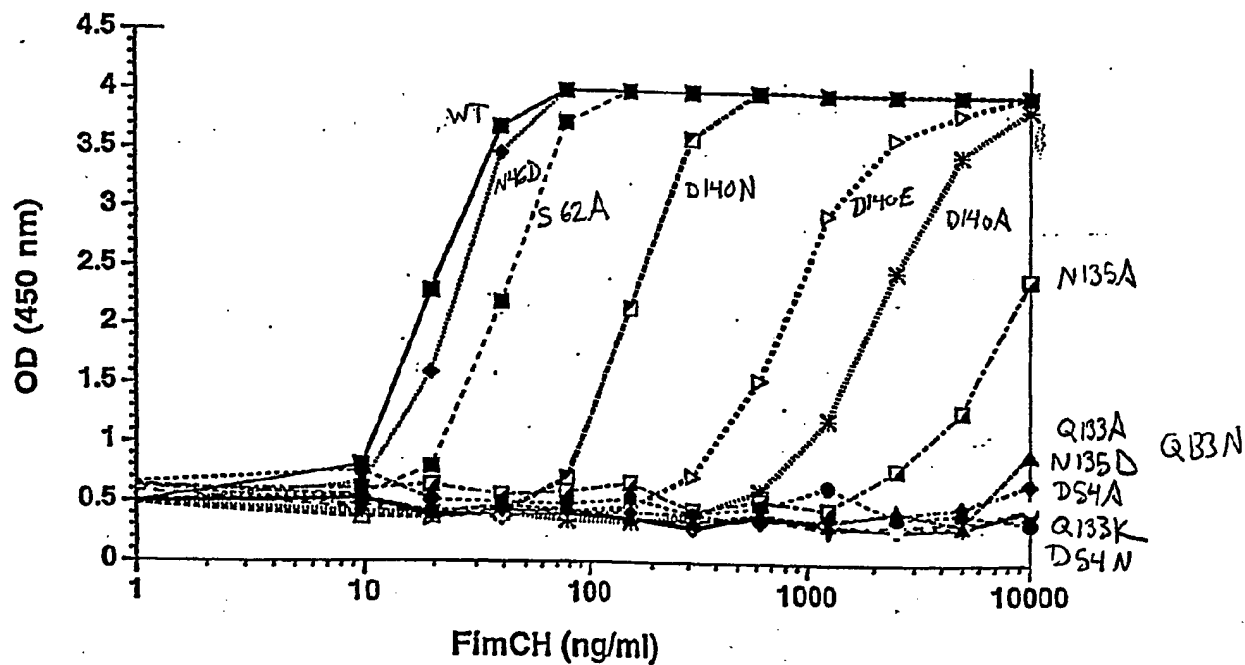
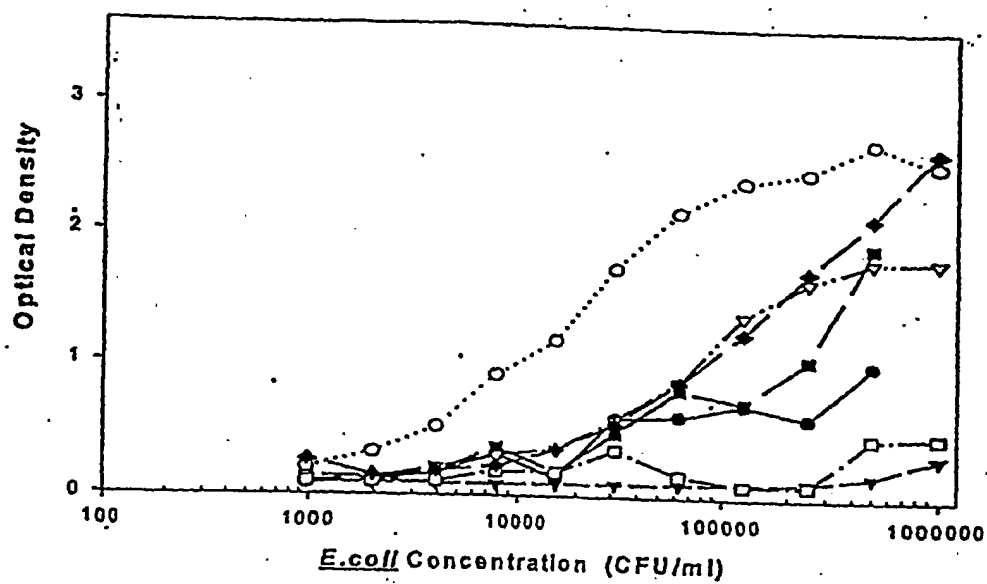


Figure 6

A



B

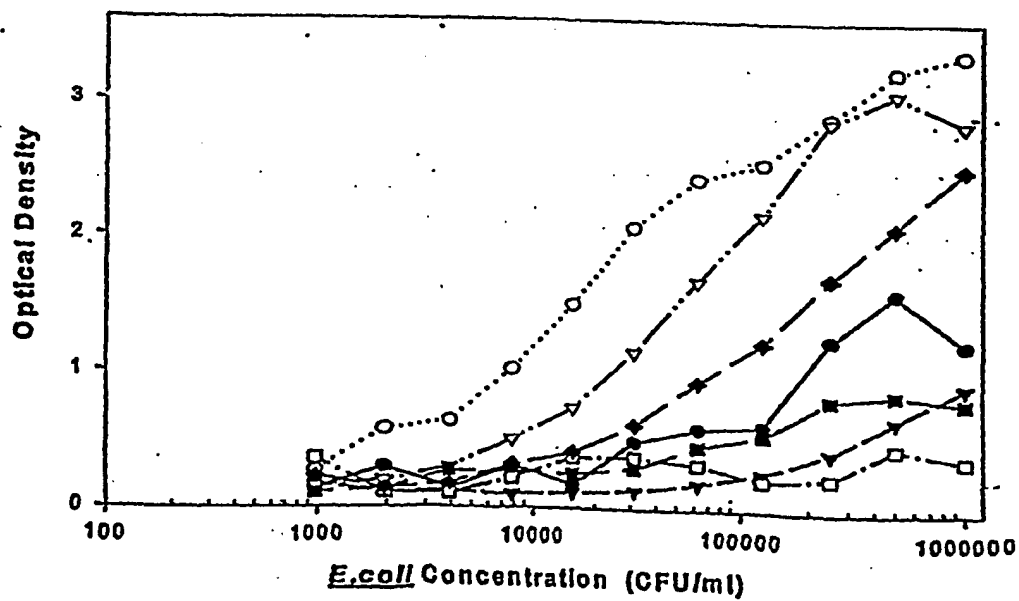
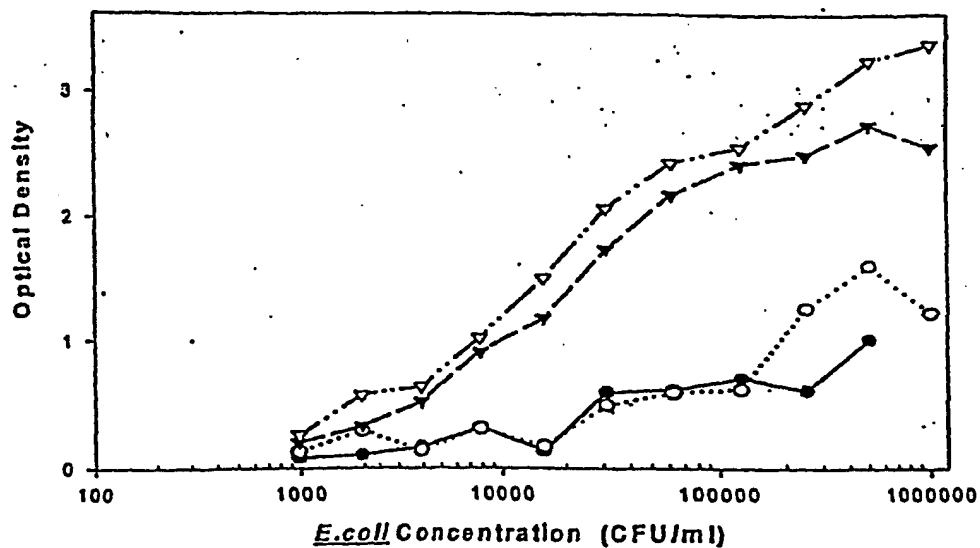


Figure 7

C



D

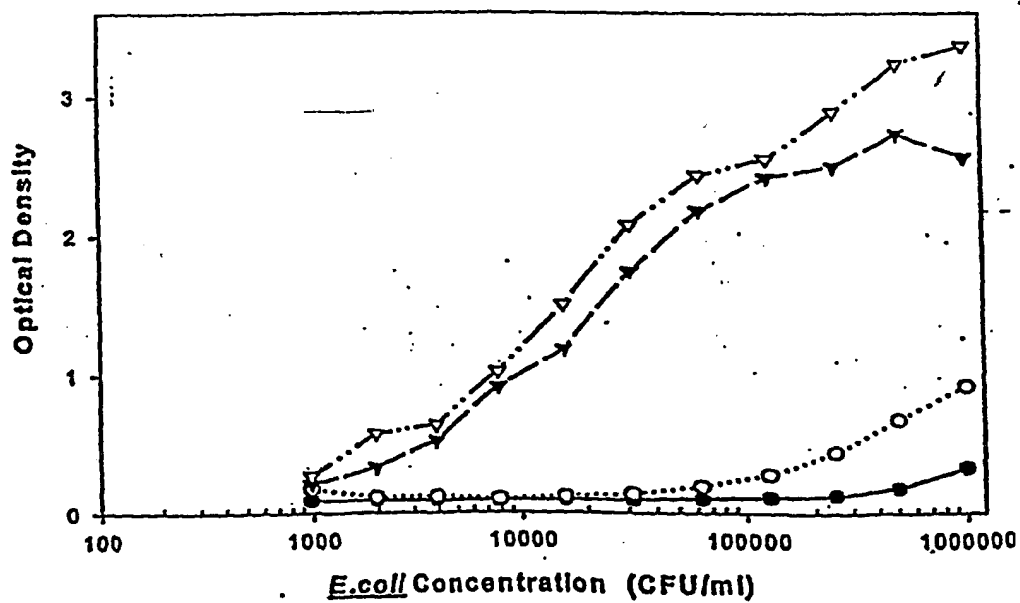
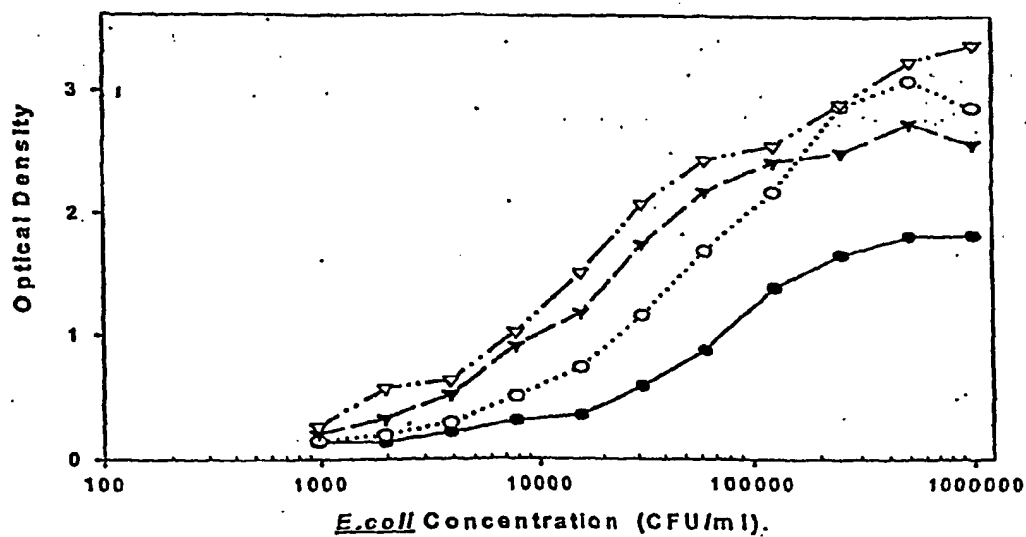


Figure 7

E



F

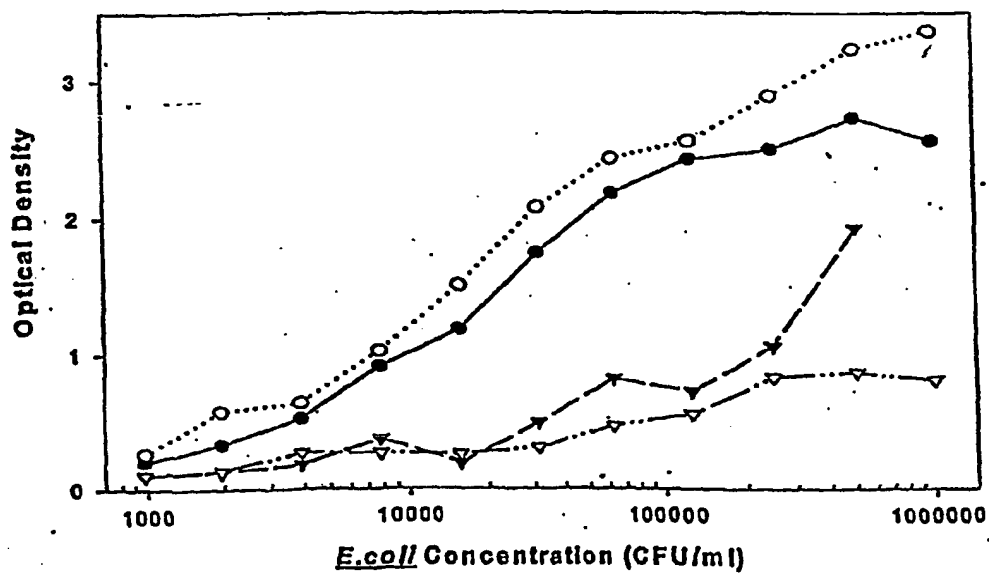
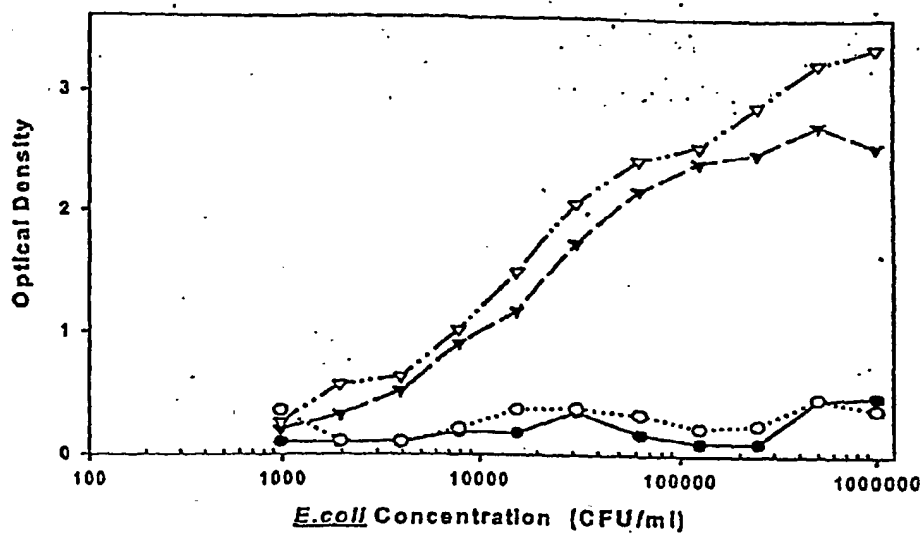


Figure 7

G



H

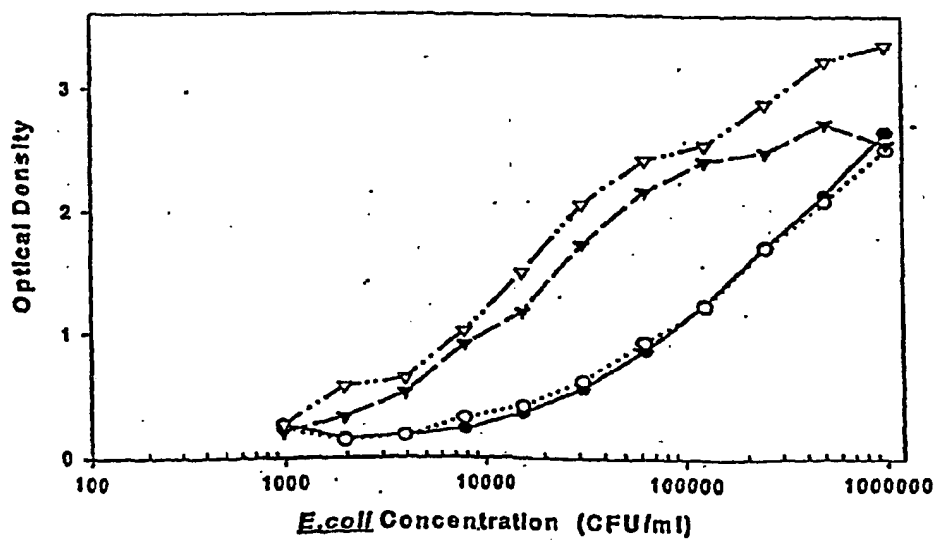
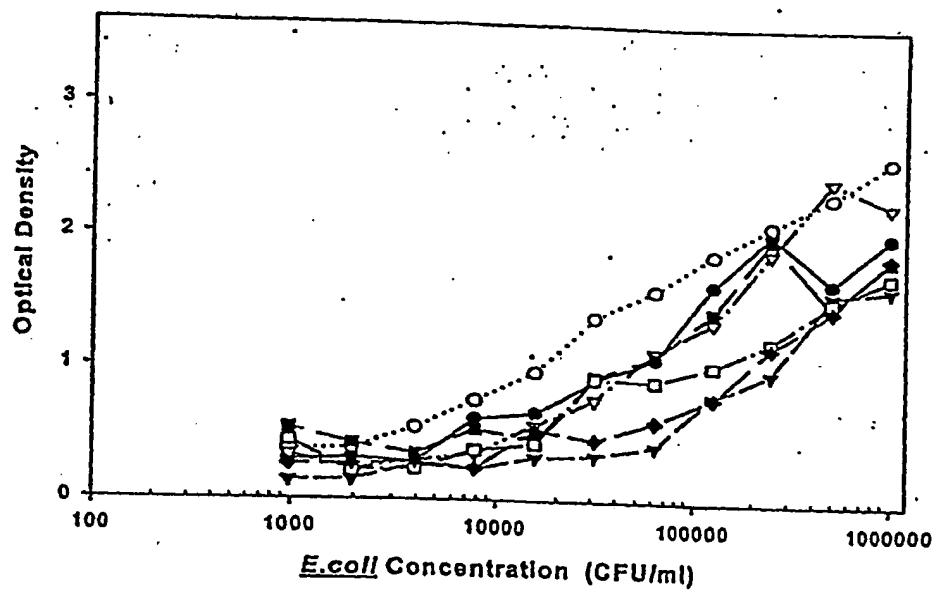


Figure 7

I



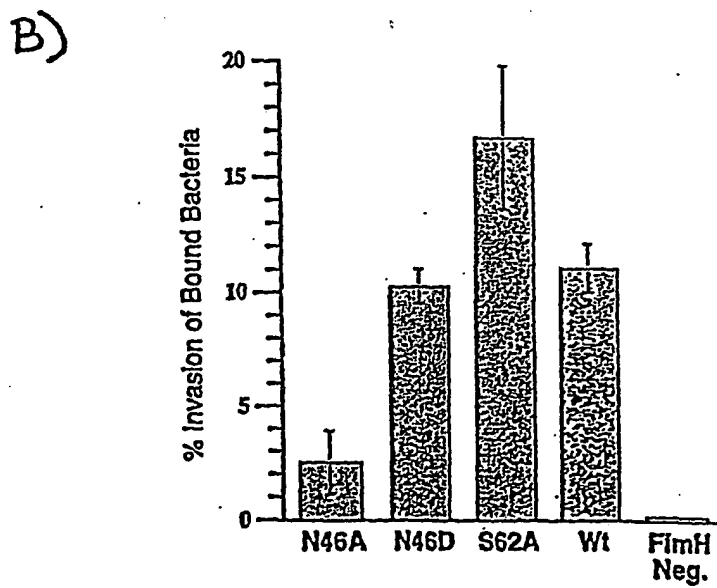
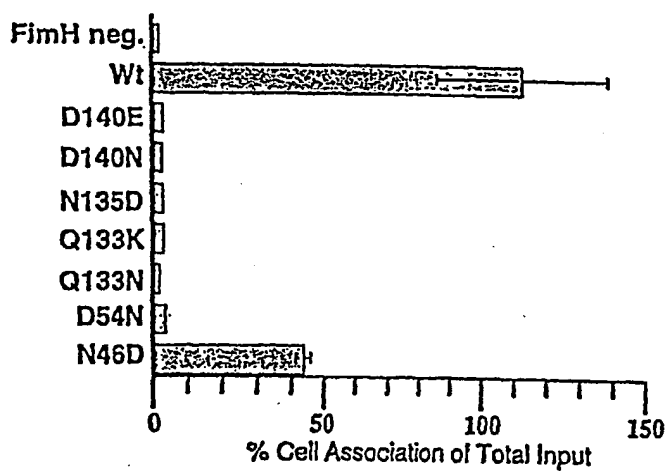
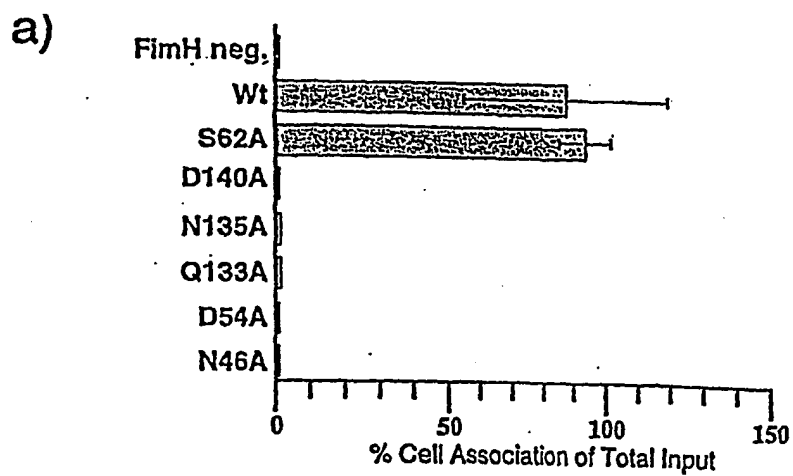


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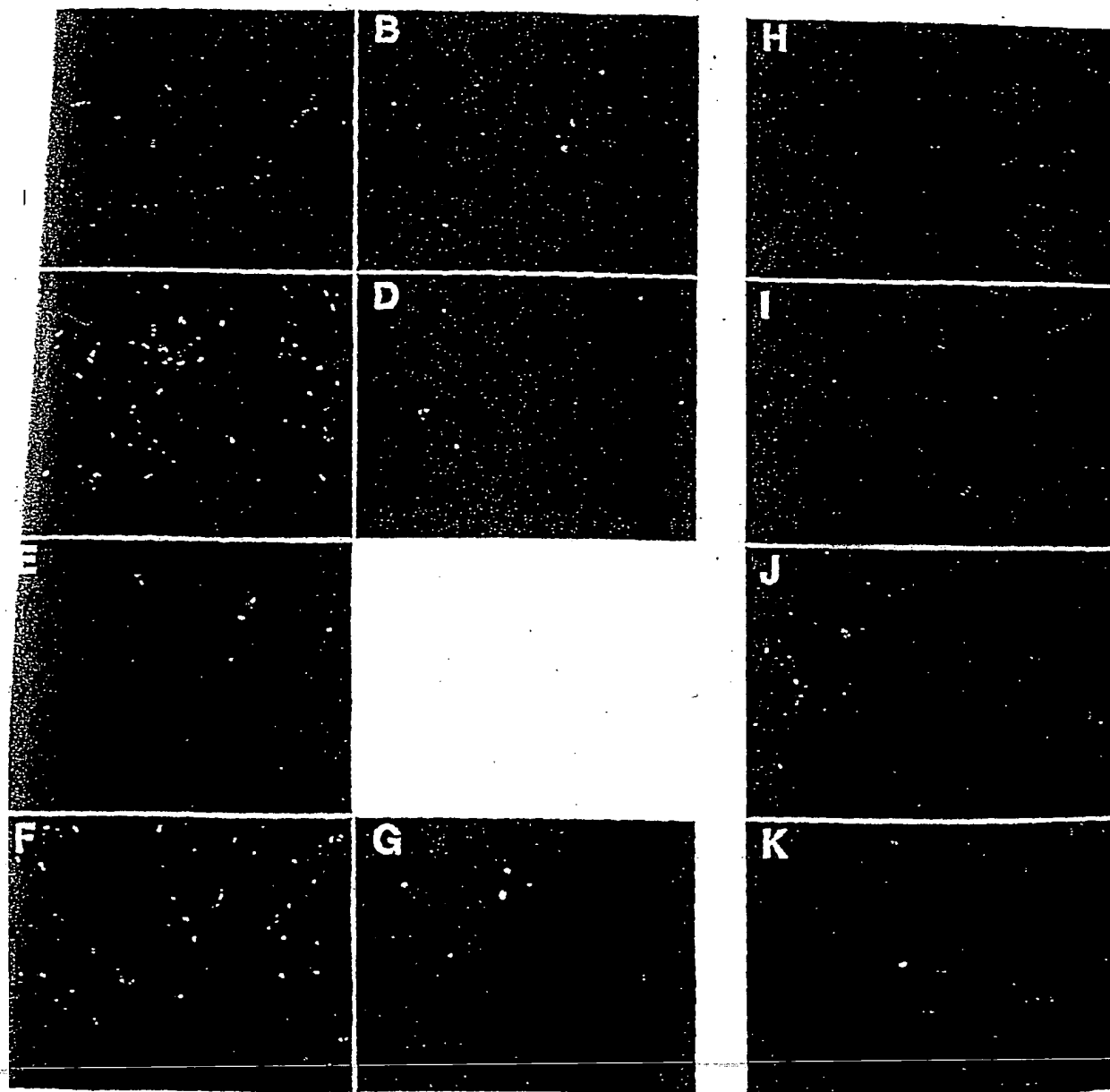
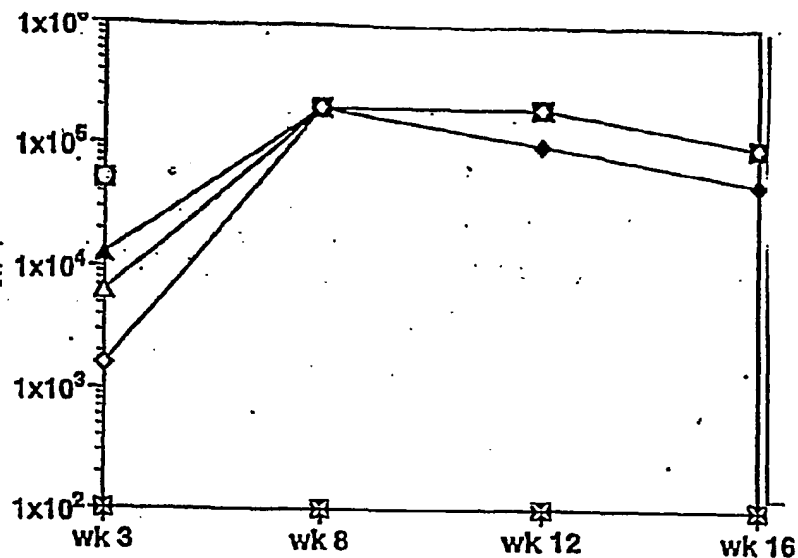
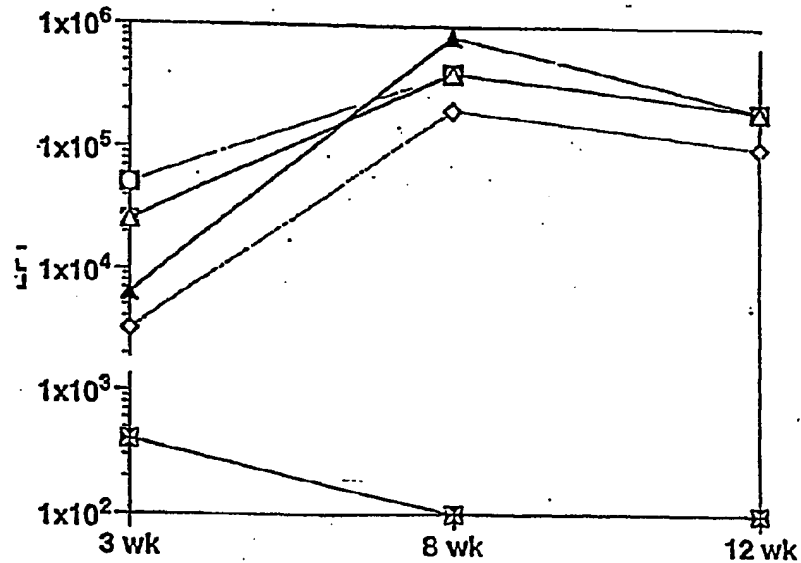


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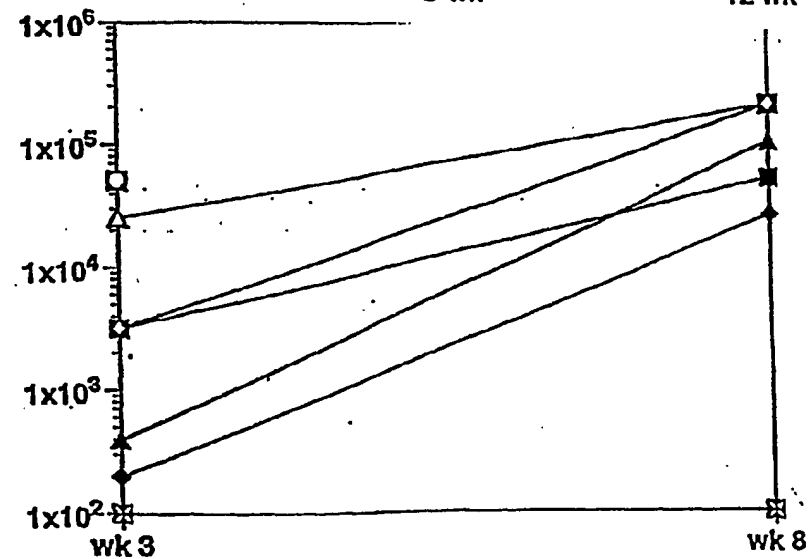
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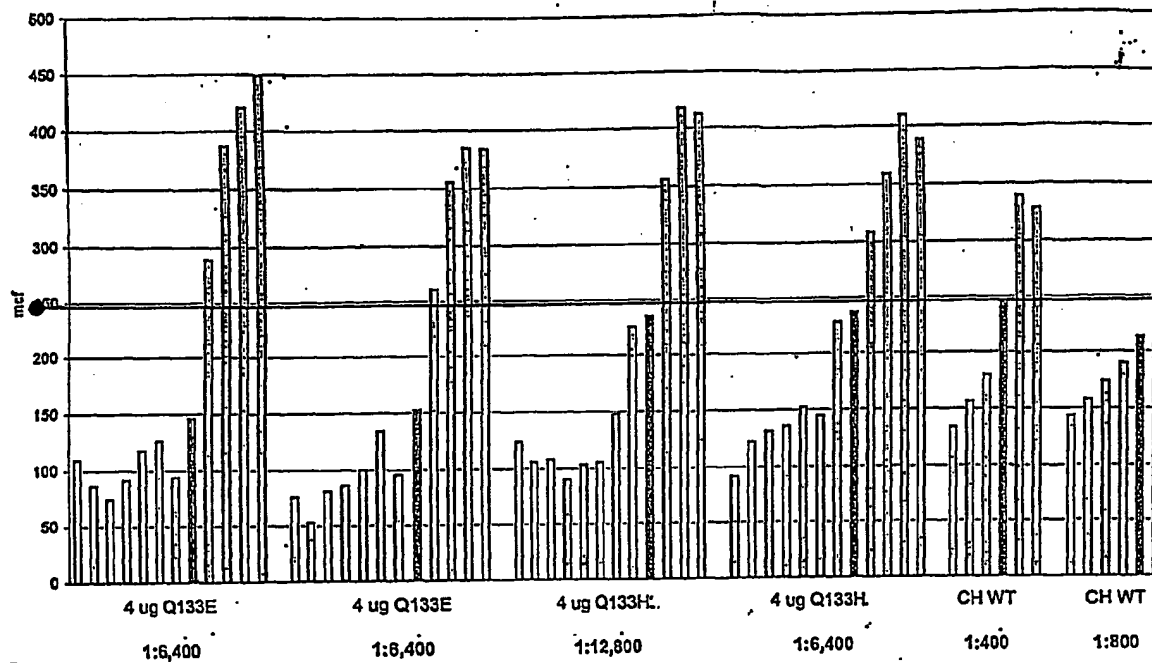
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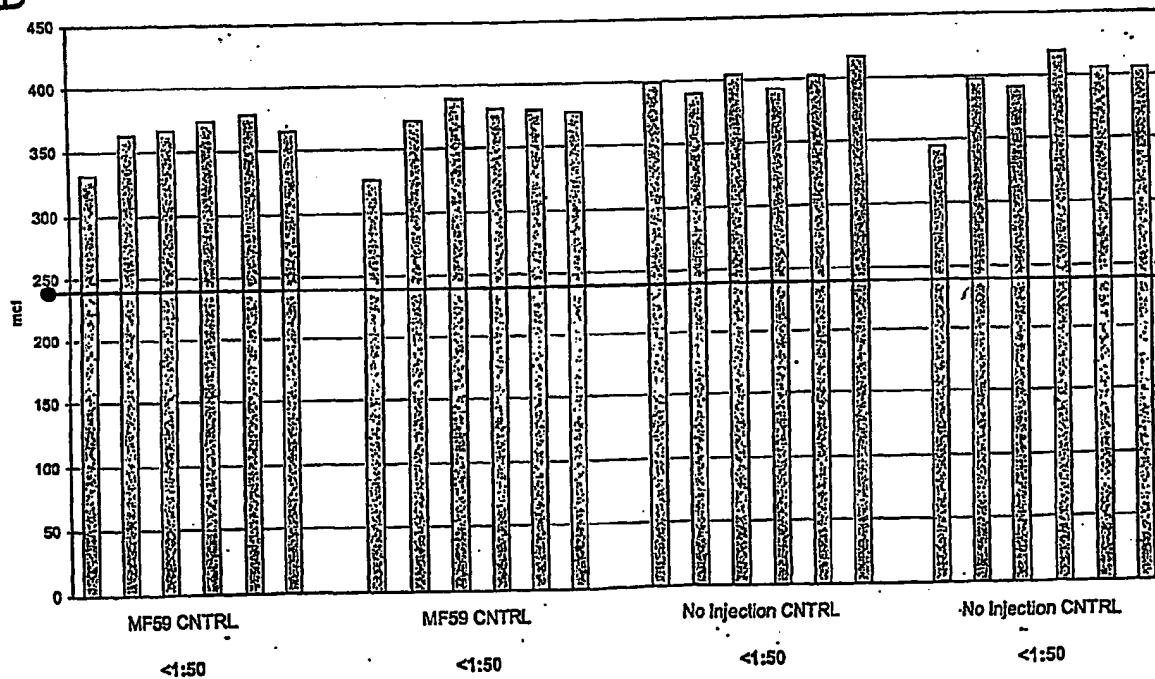
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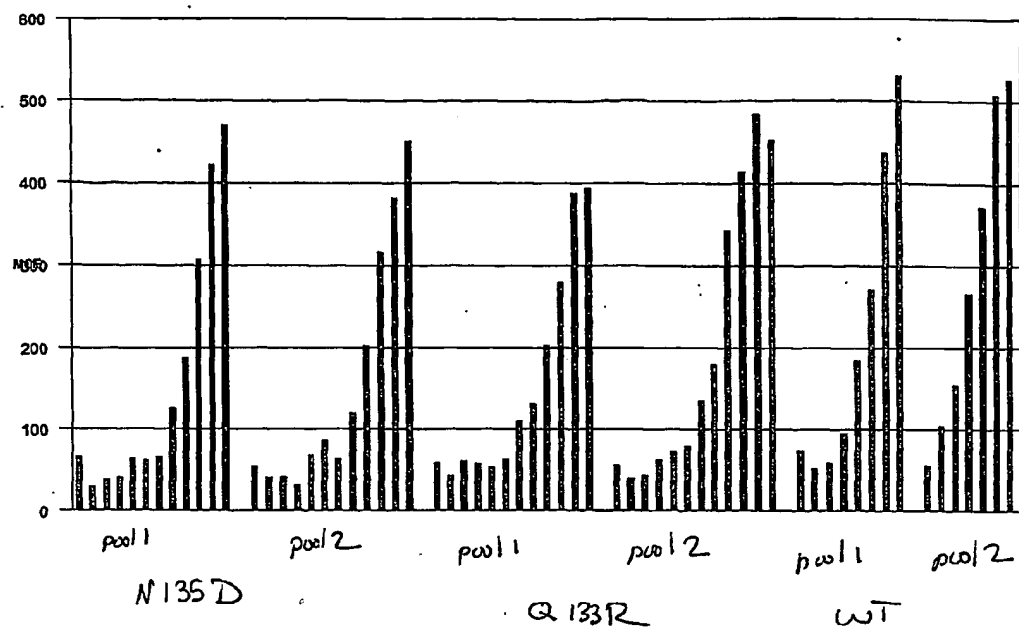
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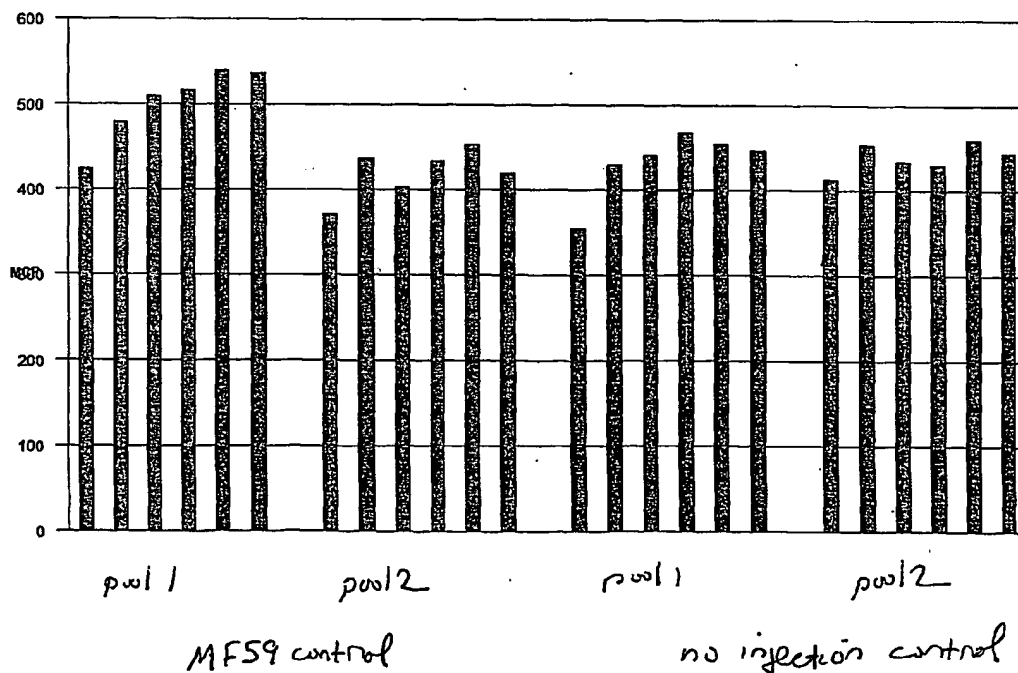
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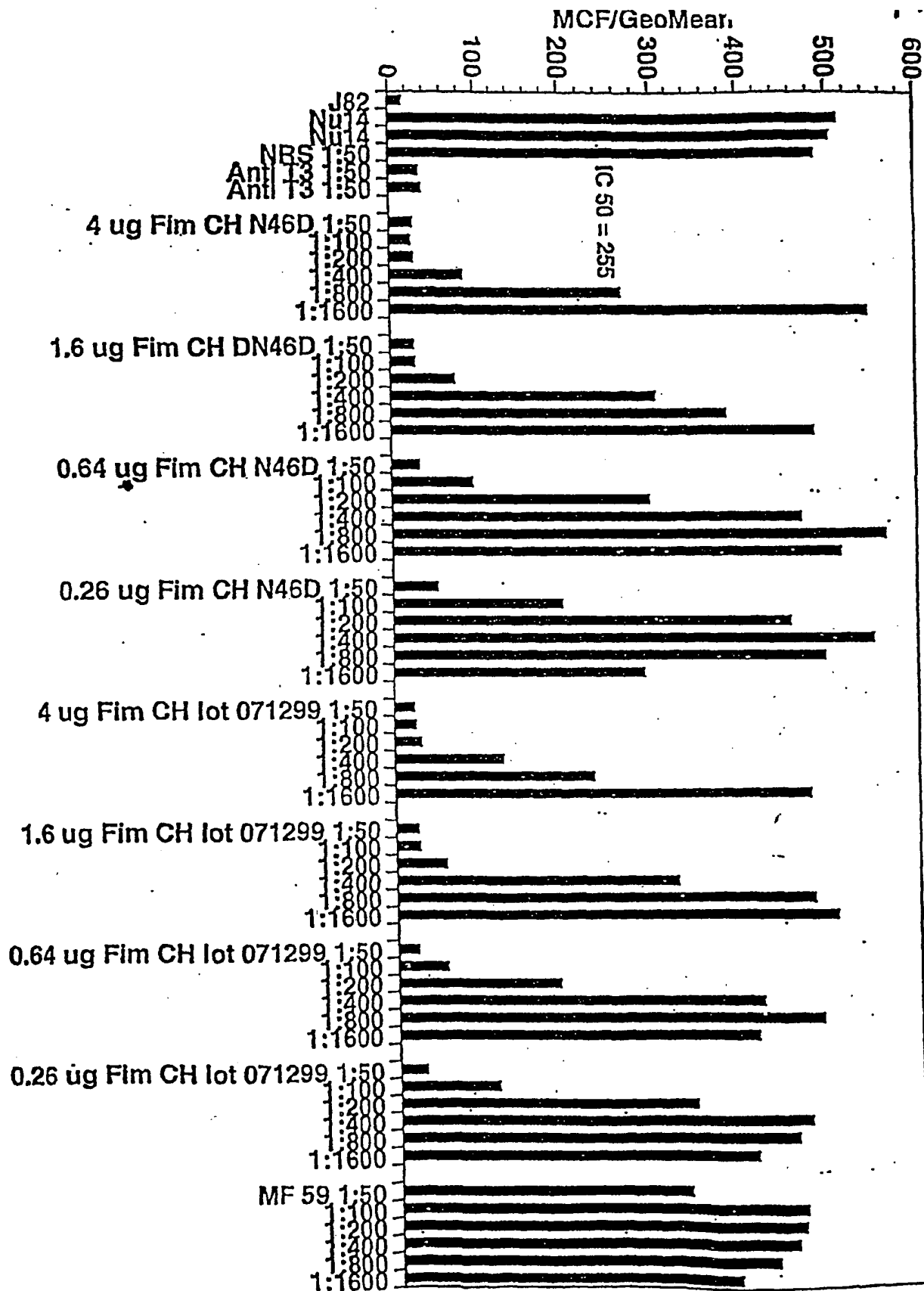


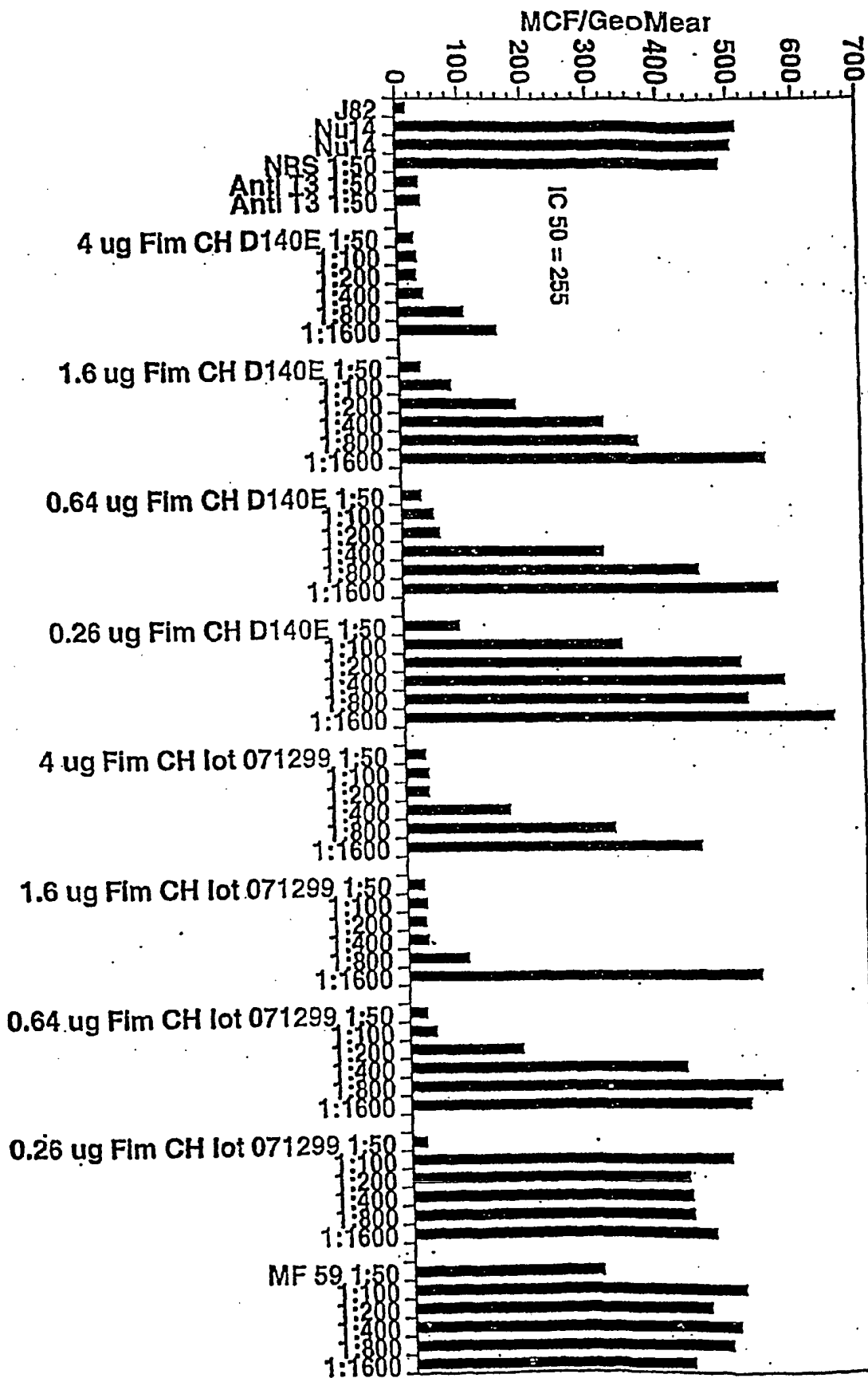
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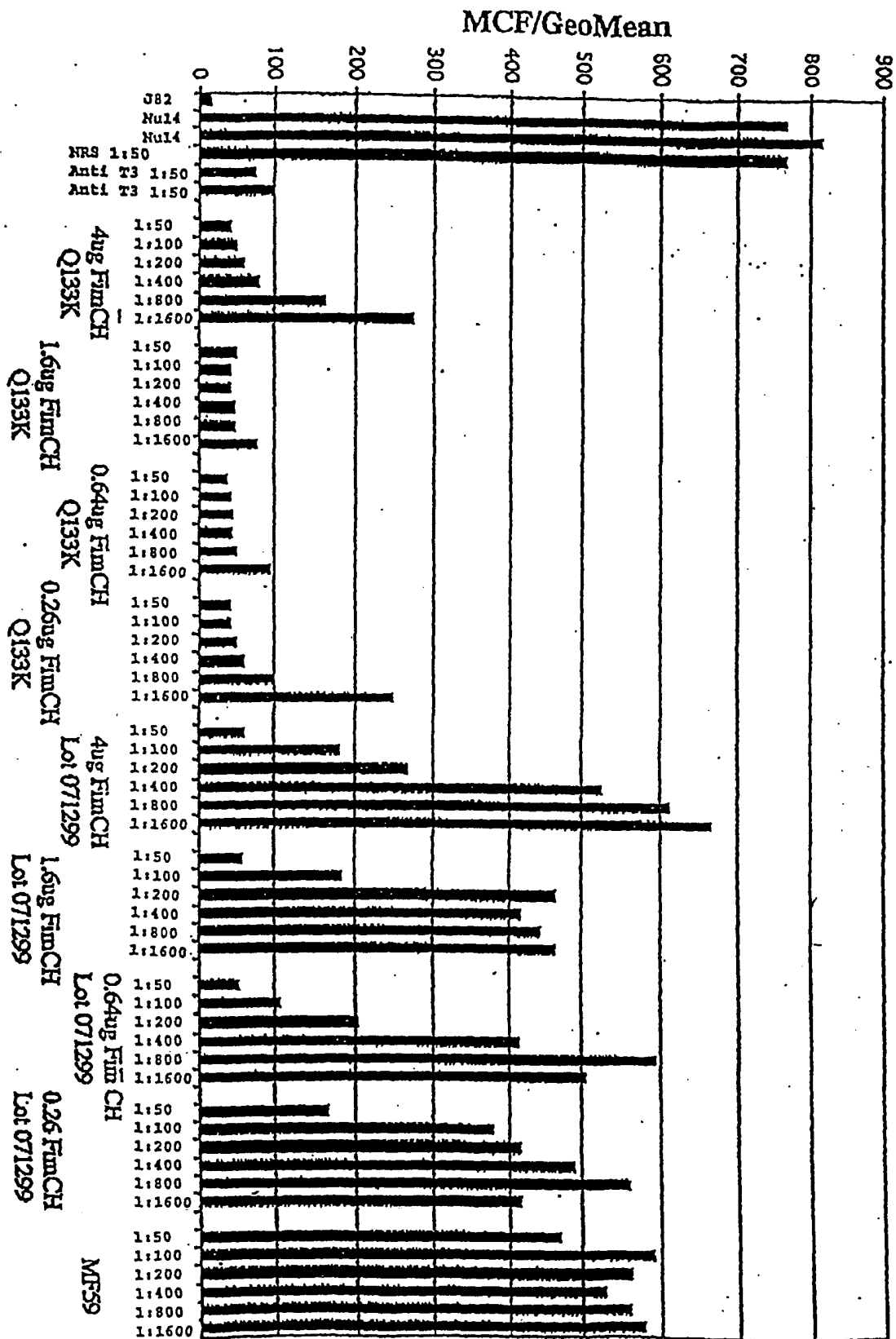


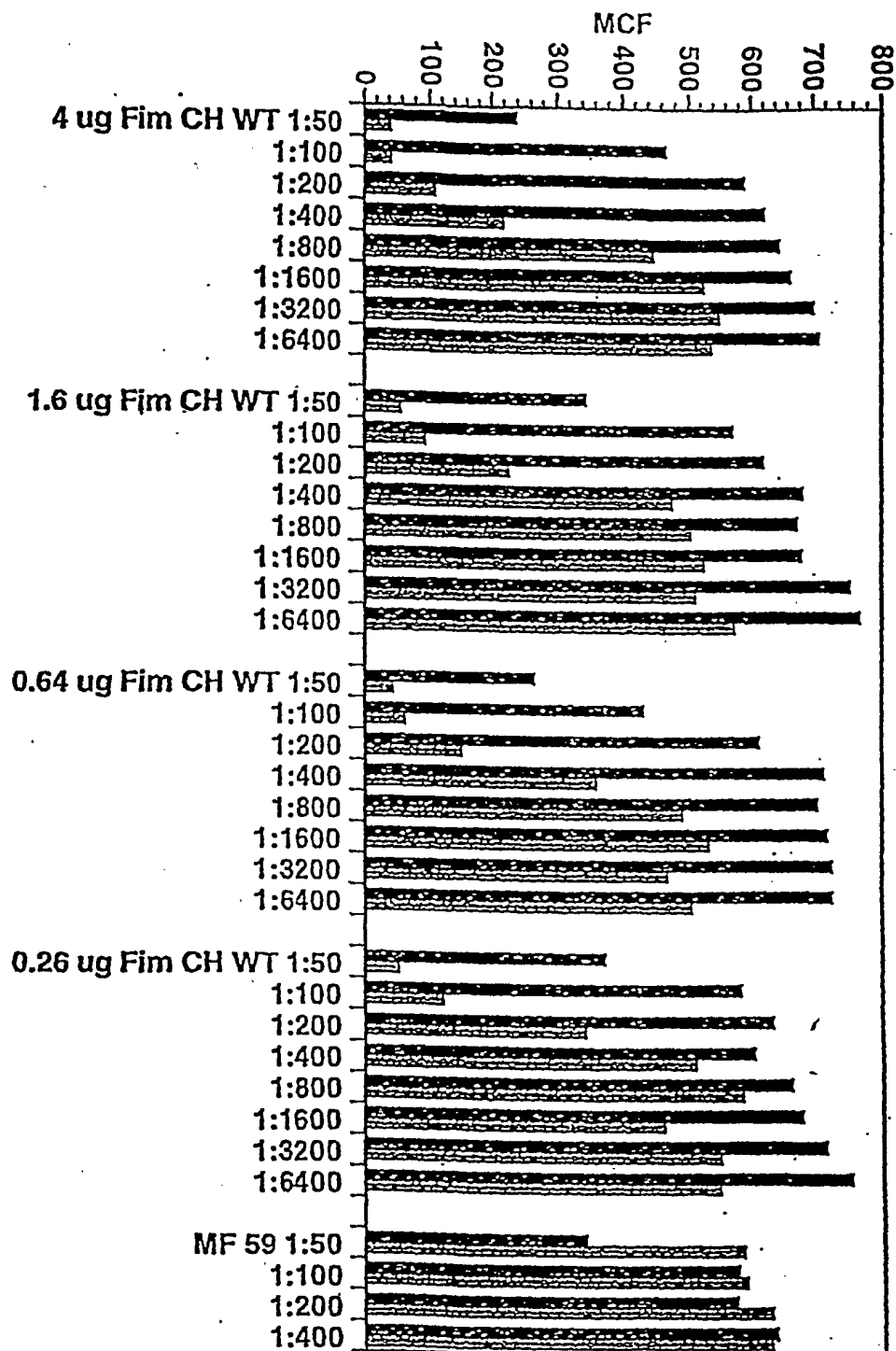
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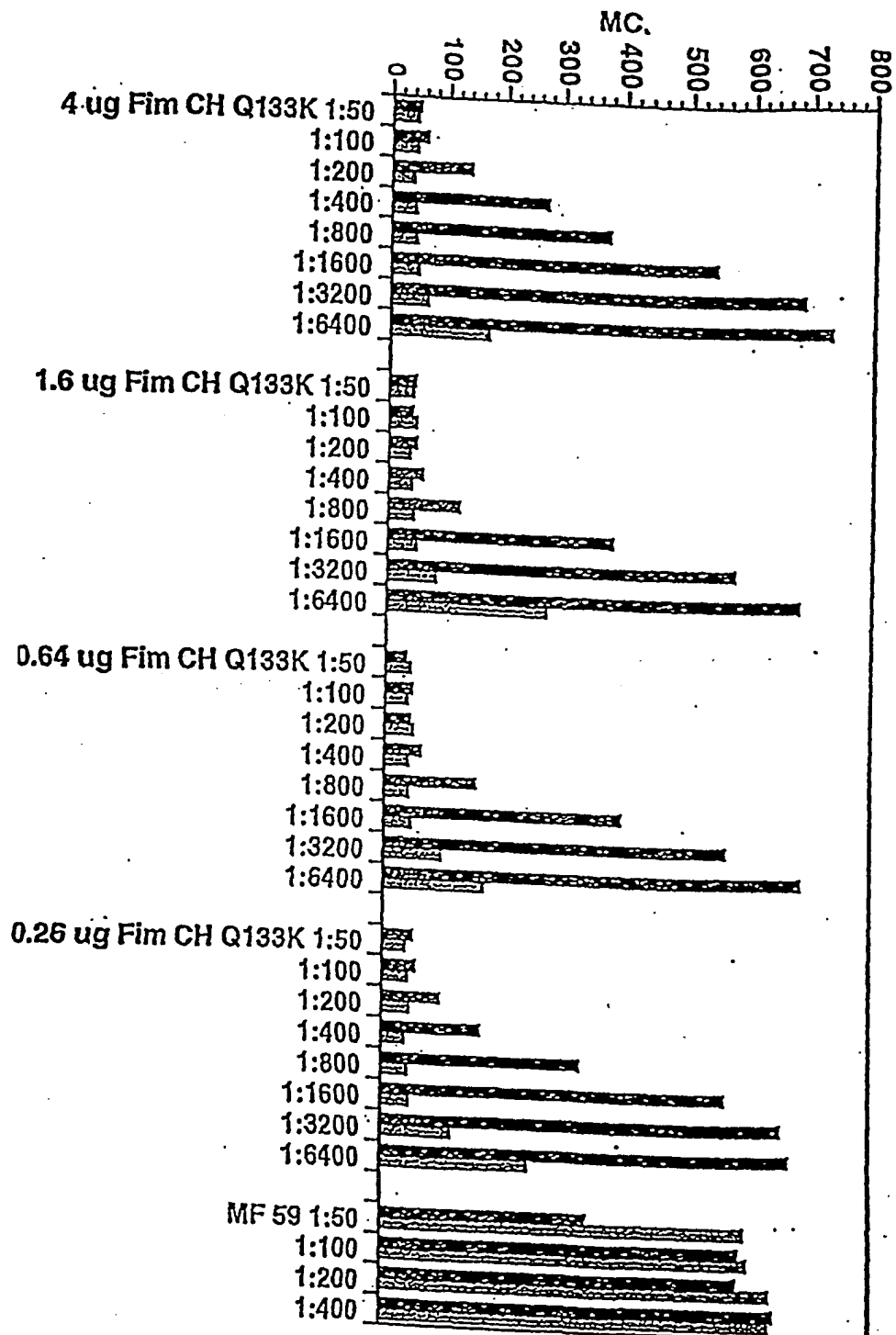


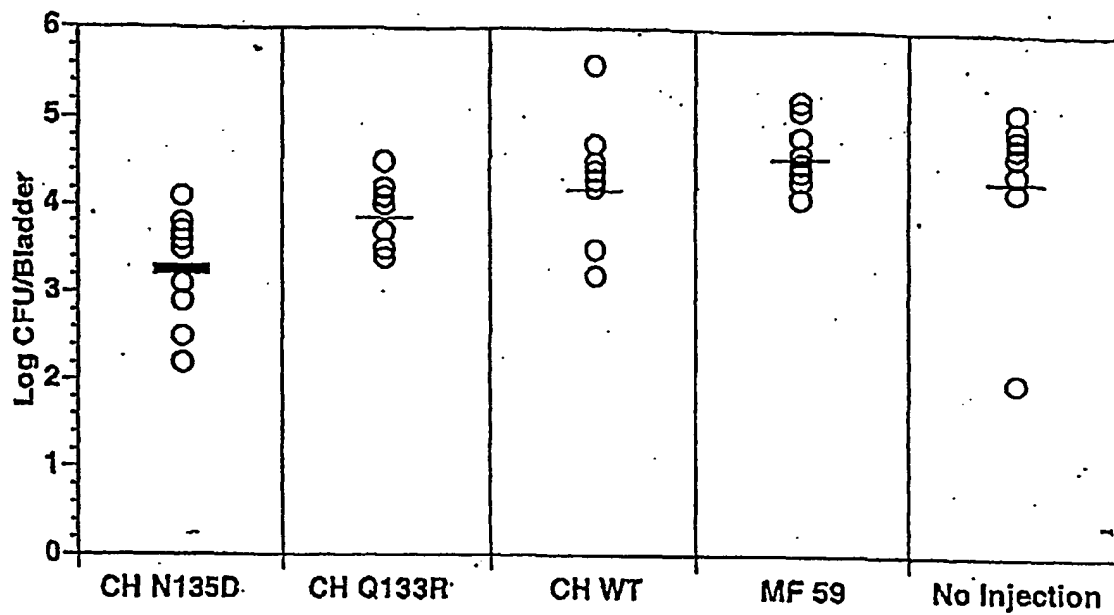












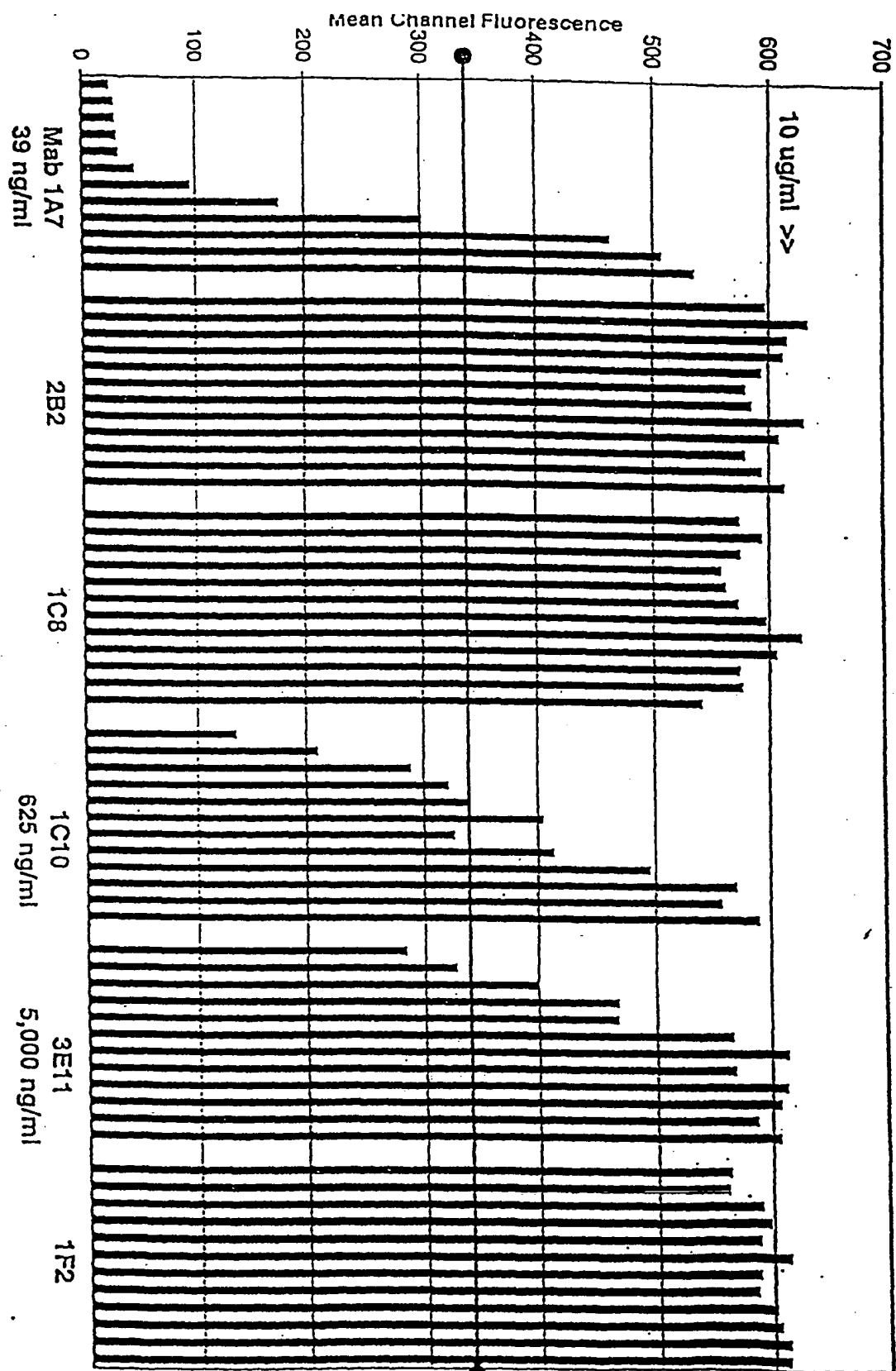
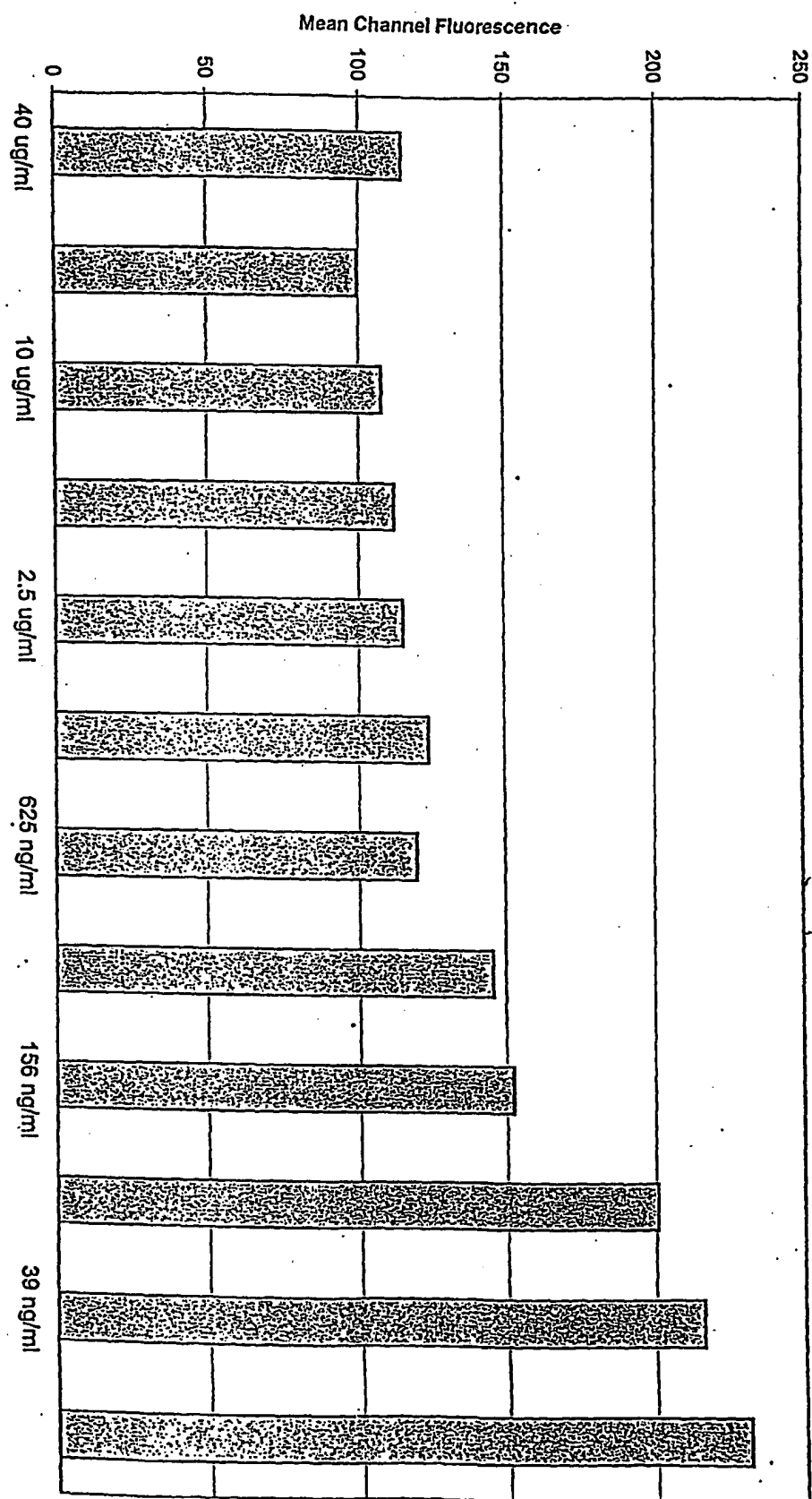
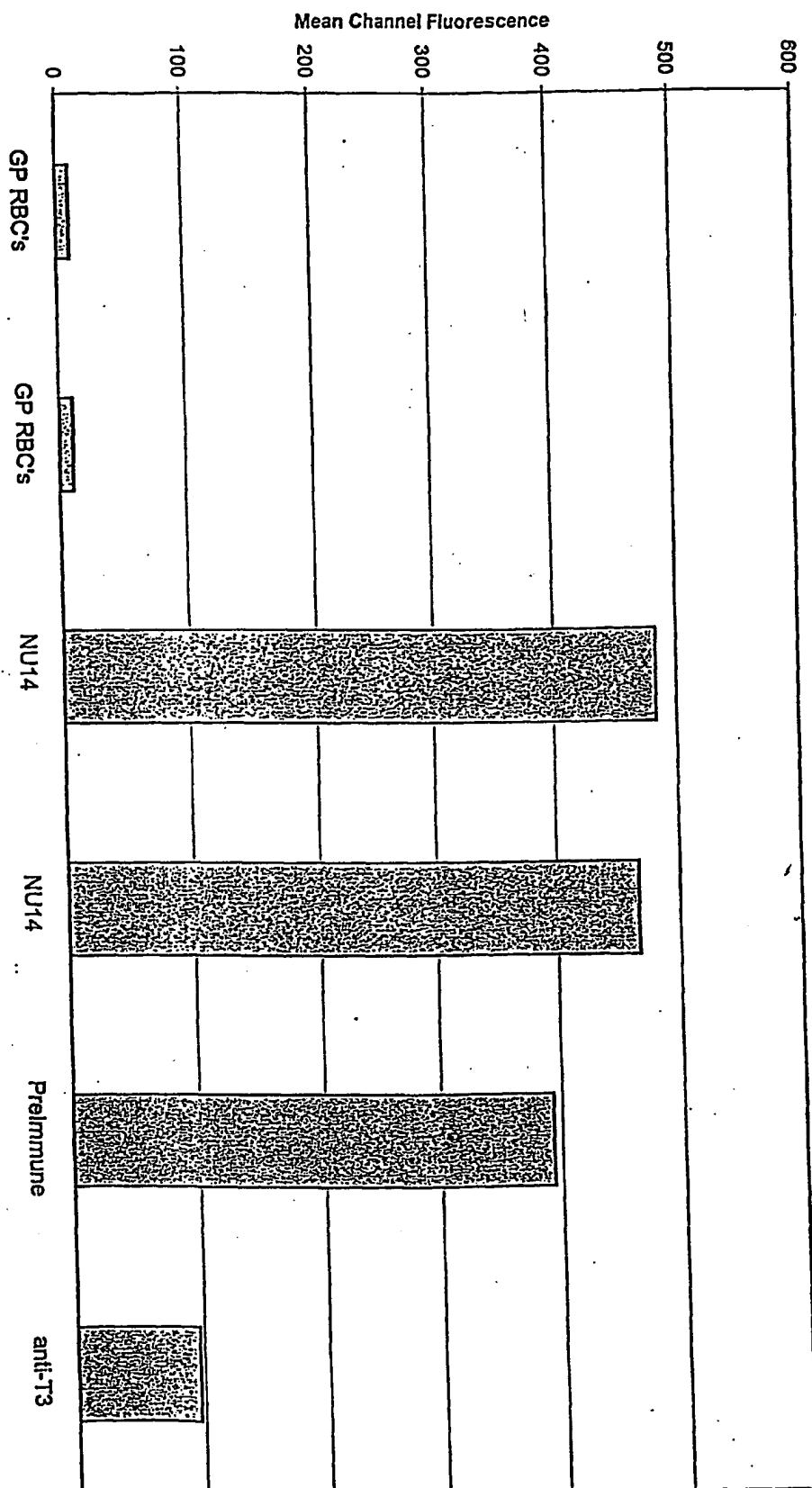
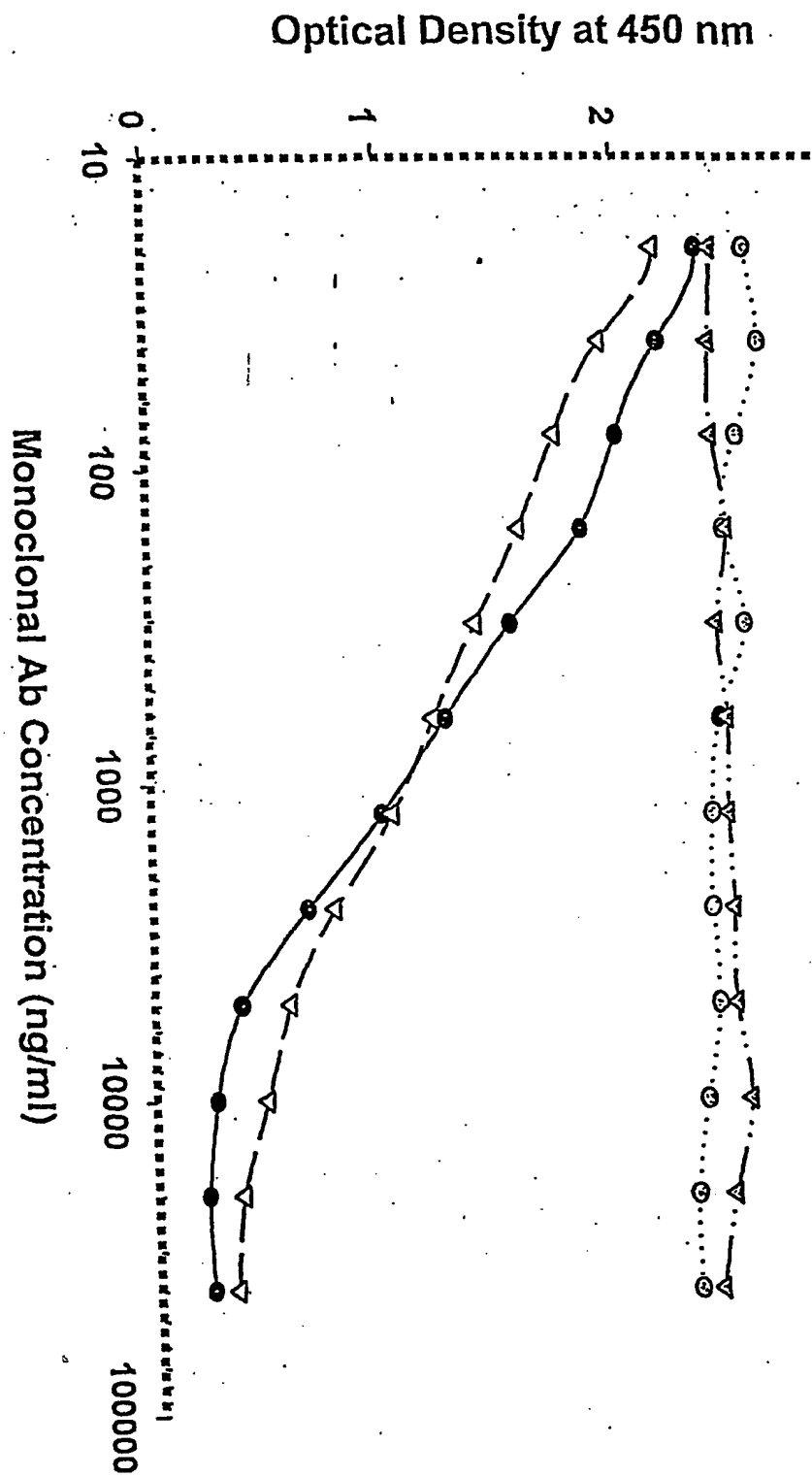


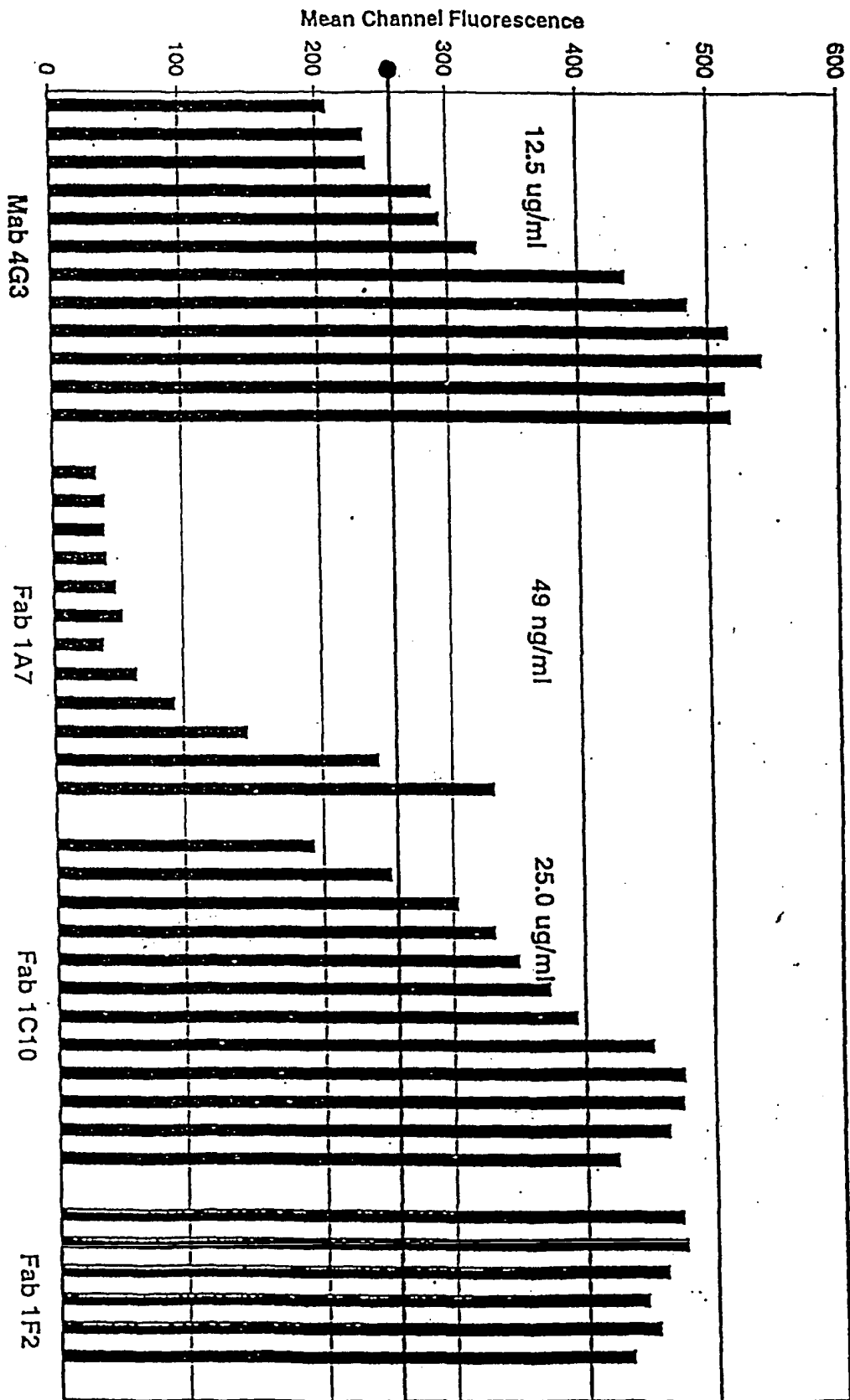
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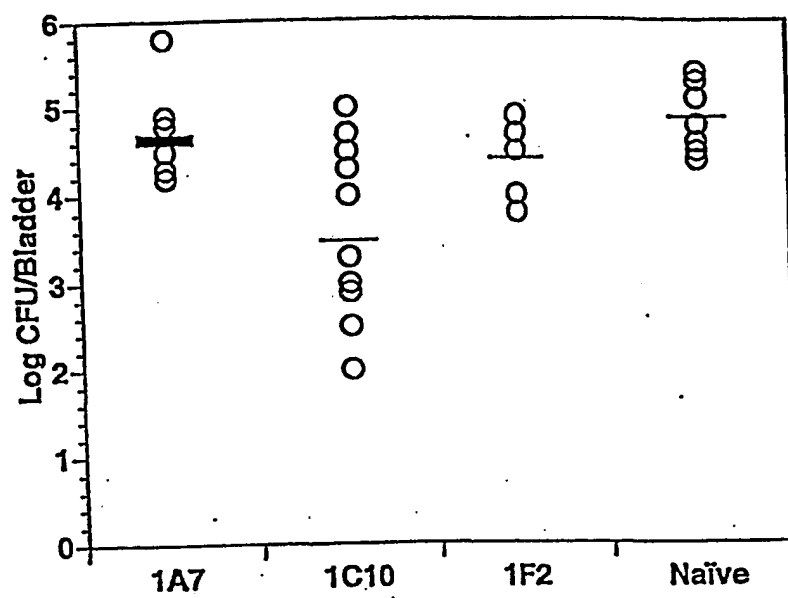






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aaa gag aat acc tta cgt att ctt gat gca aca aat aac caa ttg cca	336
Lys Glu Asn Thr Leu Arg Ile Leu Asp Ala Thr Asn Asn Gln Leu Pro	
100 105 110	
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Gln Asp Arg Glu Ser Leu Phe Trp Met Asn Val Lys Ala Ile Pro Ser	
115 120 125	
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Ser Arg Ile Lys Leu Tyr Tyr Arg Pro Ala Lys Leu Ala Leu Pro Pro			
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gat cag gcc gca gaa aaa tta aga ttt cgt cgt agc gcg aat tct ctg	528		
Asp Gln Ala Ala Glu Lys Leu Arg Phe Arg Arg Ser Ala Asn Ser Leu			
165	170 175		
acg ctg att aac ccg aca ccc tat tac ctg acg gta aca gag ttg aat	576		
Thr Leu Ile Asn Pro Thr Pro Tyr Tyr Leu Thr Val Thr Glu Leu Asn			
180	185 190		
gcc gga acc cgg gtt ctt gaa aat gca ttg gtg cct cca atg ggc gaa	624		
Ala Gly Thr Arg Val Leu Glu Asn Ala Leu Val Pro Pro Met Gly Glu			
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agc acg gtt aaa ttg cct tct gat gca gga agc aat att act tac cga	672		
Ser Thr Val Lys Leu Pro Ser Asp Ala Gly Ser Asn Ile Thr Tyr Arg			
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aca ata aat gat tat ggc gca ctt acc ccc aaa atg acg ggc gta atg	720		
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65 70 75 80	
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 -5 -1 1 5 10
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 Cys His Asn Asp Tyr Pro Glu Thr Ile Thr Asp Tyr Val Thr Leu Gln
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 Lys Tyr Ser Gly Ser Ser Tyr Pro Phe Pro Thr Thr Ser Glu Thr Pro
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 Arg Val Val Tyr Asn Ser Arg Thr Asp Lys Pro Trp Pro Val Ala Leu
 95 100 105
 tat ttg acg cct gtg agc agt gcg ggc ggg gtg gcg att aaa gct ggc 432
 Tyr Leu Thr Pro Val Ser Ser Ala Gly Gly Val Ala Ile Lys Ala Gly
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 Ser Leu Ile Ala Val Leu Ile Leu Arg Gln Thr Asn Asn Tyr Asn Ser
 125 130 135
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Val Pro Thr Gly Gly Cys Asp Val Ser Ala Arg Asp Val Thr Val Thr	160	165	170	
ctg ccg gac tac cct ggt tca gtg cca att cct ctt acc gtt tat tgt				624
Leu Pro Asp Tyr Pro Gly Ser Val Pro Ile Pro Leu Thr Val Tyr Cys	175	180	185	
gcg aaa agc caa aac ctg ggg tat tac ctc tcc ggc aca acc gca gat				672
Ala Lys Ser Gln Asn Leu Gly Tyr Tyr Leu Ser Gly Thr Thr Ala Asp	190	195	200	
gcg ggc aac tcg att ttc acc aat acc gcg tcg ttt tca cct gca cag				720
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Gly Val Gly Val Gln Leu Thr Arg Asn Gly Thr Ile Ile Pro Ala Asn	220	225	230	235
aac acg gta tcg tta gga gca gta ggg act tcg gcg gtg agt ctg gga				816
Asn Thr Val Ser Leu Gly Ala Val Gly Thr Ser Ala Val Ser Leu Gly	240	245	250	
tta acg gca aat tat gca cgt acc gga ggg cag gtg act gca ggg aat				864
Leu Thr Ala Asn Tyr Ala Arg Thr Gly Gly Gln Val Thr Ala Gly Asn	255	260	265	
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Cys His Asn Asp Tyr Pro Glu Thr Ile Thr Asp Tyr Val Thr Leu Gln	45	50	55	
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Lys Tyr Ser Gly Ser Ser Tyr Pro Phe Pro Thr Thr Ser Glu Thr Pro	80	85	90	
Arg Val Val Tyr Asn Ser Arg Thr Asp Lys Pro Trp Pro Val Ala Leu	95	100	105	
Tyr Leu Thr Pro Val Ser Ser Ala Gly Gly Val Ala Ile Lys Ala Gly	110	115	120	
Ser Leu Ile Ala Val Leu Ile Leu Arg Gln Thr Asn Asn Tyr Asn Ser	125	130	135	
Asp Asp Phe Gln Phe Val Trp Asn Ile Tyr Ala Asn Asn Asp Val Val	140	145	150	155

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 Leu Pro Asp Tyr Pro Gly Ser Val Pro Ile Pro Leu Thr Val Tyr Cys
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 Ala Lys Ser Gln Asn Leu Gly Tyr Tyr Leu Ser Gly Thr Thr Ala Asp
 190 195 200
 Ala Gly Asn Ser Ile Phe Thr Asn Thr Ala Ser Phe Ser Pro Ala Gln
 205 210 215
 Gly Val Gly Val Gln Leu Thr Arg Asn Gly Thr Ile Ile Pro Ala Asn
 220 225 230 235
 Asn Thr Val Ser Leu Gly Ala Val Gly Thr Ser Ala Val Ser Leu Gly
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(19) World Intellectual Property Organization
International Bureau



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27 December 2002 (27.12.2002)

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- (74) Agents: **POISSANT, Brian, M. et al.**; Pennie & Edmonds LLP, 1155 Avenue of the Americas, New York, NY 10036 (US).
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(54) Title: **MUTANT PROTEINS, HIGH POTENCY INHIBITORY ANTIBODIES AND FIMCH CRYSTAL STRUCTURE**

(57) Abstract: The present invention provides bacterial immunogenic agents for administration to humans and non-human animals to stimulate an immune response. It particularly relates to the vaccination of mammalian species, especially human patients, with variants of the *E. coli* FimCH protein that elicit antibodies that have better functional inhibitory activity than antibodies raised against wild type protein. In particular, such variants include mutations that promote a more open confirmation of the FimH protein, particularly in regions involved in mannose binding, to expose regions previously poorly exposed and mutations that abolish a significantly reduce mannose binding. In another aspect, the invention provides antibodies against such proteins and protein complexes that may be used in passive immunization to protect or treat pathogenic bacterial infections. The present invention also provides machine readable media embedded with the three-dimensional atomic structure coordinates of FimCH bound to mannose, and subsets thereof, and methods of using the crystal structure to provide candidate amino acid residues for mutation.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/47994

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 39/00, 39/395
 US CL : 424/130.1, 184.1; 514/2

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/130.1, 184.1; 514/2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 WEST, STN, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	UEHLING, D.T. Vaginal Mucosal Immunization for Recurrent Urinary Tract Infection: Extended Phase II Clinical Trial. The Journal of Infectious Diseases. 2001, Vol.183(Suppl 1), pages S81-S83.	1-7
X,P	LANGERMANN, S. et al. Vaccination Utilizing the FimCH Complex as a Strategy to Prevent Escherichia coli Urinary Tract Infections. The Journal of Infectious Diseases. 2001, Vol.183(Suppl 1), pages S84-S86. See entire document, especially S84, column 2.	1-3
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Y,P		4-14
X,P	SCHILLING, J.D. et al. Structure and Function of Escherichia coli Type 1 Pili: New Insight into the Pathogenesis of Urinary Tract Infections. The Journal of Infectious Diseases. 2001, Vol.183(Suppl 1), pages S36-S40. See entire document.	1-3
Y,P	SCHEMBRI, M.A. et al. Molecular Characterization of the Escherichia coli FimH Adhesin. The Journal of Infectious Diseases. 2001, Vol.183(Suppl 1), pages S28-S31. See entire document.	4-7

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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E earlier application or patent published on or after the international filing date	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
O document referring to an oral disclosure, use, exhibition or other means	*Z* document member of the same patent family
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

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Commissioner of Patents and Trademarks
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Date of mailing of the international search report

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PCT/US01/47994

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WIZEMANN, T.M. et al. Adhesins as Targets for Vaccine Development. Emerging Infectious Diseases. May-June 1999, Vol. 5, No. 3, pages 395-403. See entire document, especially page 395, column 2.	1-3
X	ABRAHAM, S.N. et al. Protection Against Escherichia coli-Induced Urinary Tract Infections with Hybridoma Antibodies Directed Against Type 1 Fimbriae or Complementary D-Mannose Receptors. Infection and Immunity. June 1985, Vol. 48, No. 3, pages 625-628. See entire document.	1-3
X	LANGERMANN, S. et al. Prevention of Mucosal Escherichia coli Infection by FimH-Adhesin-Based Systemic Vaccination. Science. 25 April 1997, Vol. 276, pages 607-611.	1-3
---	See entire document.	4-14
Y		
X	LANGERMANN, S. et al. Vaccination with FimH Adhesin Protects Cynomolgus Monkeys from Colonization and Infection by Uropathogenic Escherichia coli. The Journal of Infectious Diseases. 2000, Vol.181, pages 774-778. See entire document.	1-3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/47994

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claim Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-14

Remark on Protest

☐
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

Group I, claims 1-14, drawn to a methods of preventing or treating urinary tract infections by administering antibodies.

Group II, claims 15-29, drawn to a method for altering antigenic properties.

Group III, claims 30-48, drawn to mutant proteins, nucleic acids encoding them, and methods of vaccination.

Group IV, claims 49-69 and 81, drawn to crystalline compositions and methods of making them.

Group V, claims 70-80, drawn to a machine readable medium and a method of identifying a binding compound using a three dimensional structure.

The inventions listed as Group I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical feature of Group I is the antibody to be administered. No other group requires the recited antibodies or administration thereof. As such, this special technical feature is not shared by any other group. The methods of Groups II-V require different materials, have method steps, and have different goals. As such, they do not share any special technical feature.

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